

Coventry merger decision day

by David Hunkle

The future of the 1,300 student Coventry College of Education hangs in the balance today.

Plans to merge the college with Lancaster Polytechnic or Warwick University will be put to the local authority further education sub-committee following the deliberations of a consultative committee on the future of the college.

A private meeting of the Labour Party policy group in Coventry on Monday agreed to recommend a vote in favour of a merger with Lancaster Polytechnic. The Labour Party have a majority of two over the Conservatives in Coventry.

Last year Lord Crowthier-Hunt, then Minister of State overseeing higher education, approved a university-college merger but negotiations broke down between the local authority and the university on the issue of 13 points covering the merger (THE TIMES, March 12).

Local councillors approached Mr Fowler, Minister of State overseeing higher education, asking whether he could reconsider the decision and look at an alternative scheme to link the college with the polytechnic. A consultative committee was set up with representatives from the college, Coventry, Solihull and Warwickshire local authorities, and teacher representatives.

Since then Lancaster Polytechnic has been asked to produce two merger proposals.

Warwick University has submitted its revised merger proposals and Mr Robert Aitken, director of Coventry education authority, and Mr M. L. Ridger, chief education officer of Warwickshire, have also produced reports.

Mr Aitken's points out how local authority control of teacher supply could be maintained in the public sector and how resources could be integrated for future polytechnic development. He explains that the resources issue, and the national pattern of teacher education as a public sector concern since the publication of revised training regulations last autumn, were major factors troubling local councils.

Mr Ridger, however, still supports the case for a university-college merger. He was local teachers' representative on the Council for Teacher Training, proposed by the polytechnic, than through Warwick University. He criticizes polytechnic expansion proposals, which include the expansion of social science when teacher training declines and warns that "very serious embarrassment and possible staff redundancy might have to be faced should the demand for the courses collapse".

He also says that the staff: student ratio, 1:7.2 at Lancaster Polytechnic, is below the Government's norm of 1:9 and more uneconomical than Warwick University's, at 1:10.6.

Mr Geoffrey Holroyde, director of Lancaster Polytechnic, says that his own staff: student ratio was in the middle of the range given by the Committee of Vice-Chancellors and Principals. In a foreword to his report Mr Holroyde supports the transfer of teacher training to the public sector.

"The concept of teacher training blended with the concepts established for the polytechnics, Lancashire is not without its problems, and a merger with the college in which both institutions would need to change would add to them."

"Were the college to merge with the polytechnic, I believe that soon after the initial anxieties had been calmed, the college would find a warmth and cooperation that would enable the joint institution to pioneer exciting further developments in teacher training and diversified courses."

Warwick University in its document reaffirms its case for a merger and says it does not regard negotiations with the authority as having broken down. "Of the 13 points raised, agreement was reached on 10 and if a meeting had been held within a fortnight the outstanding points would have been cleared up. It is therefore a very early recommendation of the negotiations will be made which will lead to the final approval of the merger in the very near future."

Staff at the college still over-whelmingly support a university-college merger, and have produced their own document outlining the cases for and against the university and polytechnic. One of the early changes will be the end of Warwick College courses, with all new developments being transferred to the Council for National Academic Awards by 1978.

A meeting of Coventry College of Education governing body was adjourned on Monday after moves were made to bar college lecturers, college merger, from voting on the issue because of "pecuniary interests". The meeting will be resumed today.

Lesotho wrangle brought to Mr Silkin's door

by Paul Moorman

Mr Silkin, the Attorney-General, has been asked to intervene in a complex legal wrangle which could finally decide the future of the tiny Lesotho and Swaziland (ULBS).

Although Mr Silkin has yet to reply formally to a Lesotho Government request for High Court writs to be issued against Botswana and Swaziland, all indications are that he will refuse to get involved in the controversy.

The trouble began last October (THE TIMES, October 31, 1975) when the 11-year-old three-campus university was split by a unilateral declaration by Lesotho that its Roma campus would henceforth be called the new National University of Lesotho.

The action was taken, Lesotho said, because the university's vice-chancellor, New Zealander Dr Cyril Rogers, was favouring the other two campuses in the allocation of courses and resources.

Dr Rogers moved to Swaziland, announcing that ULBS's headquarters had been switched from Roma. What Lesotho now wants is the "L" to be taken out of ULBS.

The Lesotho Government is claiming that the two campuses in Botswana and Swaziland are mislabeled "ULBS" and that insurance, financial aid and legal matters are still being dealt with under the name of the defunct institution.

For Britain, the situation is potentially highly embarrassing. There

are about 60 Britons on the academic staff of the three campuses out of a total of 200, mostly under the auspices of the International Council for Higher Education Overseas.

Negotiations on a new three-campus extension of the British Exporting Supplemental Scheme, whereby academics from Britain, are the currently being finalized.

Legally, Lesotho is arguing that ULBS was incorporated by Royal Charter before the three campuses gained independence. Only the courts, therefore, are competent to stop Botswana and Swaziland using the old name.

Lesotho further claims that the writ can only be issued by the British Attorney-General or a High Court judge with the approval of the Attorney-General. If the writ was issued, British courts would be asked to interfere in the allocation of courses and resources.

The British argument, however, is that the Royal Charter ceased to exist after independence and that powers previously held by the Crown passed to the heads of the Governments of the three countries.

Meanwhile, Botswana and Swaziland say that no name-change action is called for on their part. It was Lesotho which unilaterally withdrew from the arrangement.

Rogers is still administering ULBS from Swaziland, although his contract is expected to be terminated by mutual agreement later this

15,000 jobless 'may be underestimate'

by Frances Gibb

The figure of 15,000 newly-qualified teachers expected to be without jobs next September may be an underestimate, Mr Fred Jarvis, general secretary of the National Union of Teachers, said in London this week.

He told the first press conference to be held jointly by the NUT and the National Union of Students that he was wary of making a firm prediction but the figure could be in the order of 20,000.

If local authorities responded to the latest Government circular urging them to re-examine spending in the light of recent over-estimates (THE TIMES, June 4) the unemployment of teachers was likely to be far worse than had been thought.

"I do not see how local authorities can save more money without such a teacher, and other staff," he said.

Mr Jarvis said that in the NUT's view no local authority had over-spent in the context of the Government's guidelines on maintaining existing educational standards. Many had not even fulfilled these obligations.

He said the NUT gave full support to the aims of the NUS campaign against teacher unemployment, now into its third week.

Mr Charles Clarke, president of the NUS, said the campaign would be continuing into the next academic year and last until jobs were found for all qualified teachers.

At a special conference organized by the NUS this week at Manchester, teachers' training students defeated by 171 to 169 votes the union executive's proposal to confine the campaign to teacher unemployment. They called for students to fight all unemployment and public expenditure cuts, and for trade unions to consider supporting them with industrial action.

They called also for a day of action on June 16 to coincide with the TUC conference. It will include a mass picket of the conference in protest against the Government's pay policy.

The past two weeks had seen an unprecedented level of student activity, involving thousands of students who had never been involved in political activity. Students were united, he said. The campaign was not bedevilled with the political disagreements of many of the NUS's campaigns.

Some 600 students, representing about 150 colleges and universities of education attended the conference. Sirs, which first began three weeks ago, are now taking place in 119 colleges, polytechnics and universities.

The conference was divided on whether the campaign should be widened to a fight against all unemployment.

Mr Charles Clarke argued for using the issue of teacher unemployment as a wedge. "By winning



Delegates' picnic at Manchester Polytechnic

this issue we will have opened up a

chink in the armour of the Government's economic policy," he said. "That contribution will be a decisive case on our future as a student union and on all organizations trying to break the Government's pay policy."

Miss Anna Reese, a delegate from Coventry College of Education, pointed out that the campaign had started with the student teachers telling the executive what to do and the other way round. All jobs in the public sector had to be defended. Teacher unemployment could not be isolated from all unemployment, she said.

This week all student unions were urged to set up unemployment desks for registering the number of students without jobs in their area.

As part of the week's publicity drive students were urged to picket council meetings and local authority offices and set up stalls in local shopping areas to publicize their case. Students at Bristol University's school of education are holding a teach-in today.

Students were also urged to expect to meet Mr Mulley, Secretary of State for Education and Science, to discuss whether more money can be found for employing

the 15,000 teachers. They estimate

£3.5m net is needed. A call for all "fair-minded" people to support student teachers came this week from Dr George Talley, principal of Sheffield Polytechnic.

In a personal declaration of support for the students he said: "When the most compliant, most dutiful students are defiant and hostile we must look to others for the cause."

A corresponding legacy of mistrust is about to be bequeathed. These young people are asking for fair pay and they are not getting it. May they have every support from other fair-minded people."

Sirs were almost without exception disruptive affairs, planned and executed by militants determined to provoke angry confrontation, he said. The sit-in now taking place at Sheffield Polytechnic was an exception.

"The students were right to protest. They were asked to come into teaching three or four years ago and could have chosen other careers which would not now be promising only half of their jobs."

The students concerned broken promises, bland indifference and a somewhat heartless manipulation," he said.

Ideas exchanged in Commons on cutting unemployment

Suggestions for reducing the number of unemployed teachers were exchanged in the House of Commons this week.

Mrs Lynda Chalker (Wallasey, C) referred to the proposals for a voluntary early retirement scheme and Mr Mulley, the Secretary of State for Education and Science, pointed out that the scheme for retirement on pension at 55 had been considered recently in the Teachers Superannuation Working Party but discussion was deferred.

Asking when talks were expected to be completed, Mrs Chalker felt that with older teachers wishing to retire early, some of the unemployed could take up those posts in September, if Mr Mulley could get a move on with it.

Mr Mulley said that in the first instance these negotiations were between the I.E.A.s and the unions. "What we are seeking to do," he explained, "is to keep these arrangements in line with those for other local government employees. The question is whether it should be a voluntary retirement scheme or a matter for compensation for premature retirement, which is the normal practice at present."

Mr William van Straubenzee

(Wokingham, C), a former education minister, considered that one of the reasons for seeking to press on with this retirement scheme was that many of those now coming out of the colleges of education were of a particularly good standard, which made it doubly regrettable that they could not be immediately employed. Was there not much advantage in seeking to improve the quality of the teaching force?

Predictions of unemployment were difficult to make, particularly at this time. In a few months she hoped to have a rather clearer picture.

Mr Norman St John-Stevens, chief Opposition spokesman on education (Chelmsford, C) said the essence of their charge against the Government was that they had succeeded in raising teacher unemployment recently it had been made public that it was during the days of the previous administration, when Mrs Thatcher and Mr St John-Stevens were at the department, that the places now producing the unemployed teachers were planned.

'Boost priority area funds'

Funds to employ newly trained teachers in educational priority areas should be raised by the Government even if it meant cutting the teacher education budget, Mr Gordon McGregor, principal of Bishop Otter College of Education, Chichester, has suggested in a letter to the Department of Education and Science.

He has asked Mr Fowler, Minister of State overseeing Higher Education, to consider launching such a scheme this year to prevent 15,000 teachers from becoming unemployed.

"If all local authorities responsible for EPAs were immediately permitted to advertise enough additional teaching posts to reduce their class sizes well below the national average, the young people graduating this year could be offered a challenge that most would gladly accept."

He says that salaries could either be met from money to create new jobs or from the education budget itself.

"I doubt if I am the only head of a teacher education institution who would prefer to finance such a scheme from a distributed cut in next year's teacher education estimates, rather than wait for the catastrophic drop in recruitment to teacher education courses which is bound to follow if nothing is done."

MPs' report set to criticize 'secretive and narrow' DES

by David Walker

The group of MPs which has been investigating the Department of Education and Science will report, probably next month, that planning for the future of education is badly organized, too secretive, and too narrow.

It is likely to confirm many of the findings of a team from the Organization for Economic Cooperation and Development which last year said that DES officials tried to underestimate the role of Government in determining the future course of educational policy.

As one of the members of the House of Commons Expenditure Committee's education sub-committee has said, its report will damage the official picture of the DES passively standing back while the various competing interest groups, such as local authorities and teachers' unions, fought it out. The DES had to be consciously and actively involved as a planning body, not a mere bystander.

The report is likely to make special mention of inadequate planning of provision for the 16 to 19 age group and the apparent arbitrariness of the DES decision to allocate higher education student numbers to polytechnics and universities on a 50:50 basis. It is also expected to criticize unwillingness to reveal the forms of consultation which the DES used prior to the issue of the 1972 White Paper.

The sub-committee, headed by Miss Janet Fookes, a Conservative MP with more than 12 years' experience of school teaching, has been strongly influenced by two sets of evidence.

Lord Crowthier-Hunt, former minister at the DES and an expert on the government machine, told it that the DES was "ill-organized and ill-equipped for its role as a long-range planner". Civil servants within the DES involving either outside experts or one of the DES ministers of state acting as a planning minister unconcerned with day-to-day administrative work.

Such a recommendation could well be boosted by the final report of another House of Commons committee, now sitting, which is examining how the conclusions of the Fulton report on the government machine have weathered since the late 1960s. They included plans for powerful forward planning mechanisms in each government department.

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Middleton College to close

by David Henckle

Middleton St George College in County Durham, which has 700 students, will have to close, Mr Fowler, Minister of State overseeing Higher Education, has decided.

The college was opened by Mr Fowler on May 5, 1970 and received notice to close from the same minister last week. It will admit its last students this September and close in July 1978.

It is the largest of the 17 colleges which have been closed since reorganization of the colleges began in 1973. It is also the shortest-lived local authority teacher training institution, having taken its full quota of students for only six years of its 11-year existence.

Mr E. R. Black, principal of the college, said that the decision would mean that South Durham would now have no teacher-training institution since Darlington College is to close by 1978.

"It is remarkable that a small cathedral city like Durham is to keep two teacher training colleges while a large town like Darlington has no teacher training places," he said. The reason for the

closure is given by the Department of Education and Science as the failure of the Cleveland and Durham education authorities to agree a transfer of the college to Teesside Polytechnic.

Mr Black blamed the Durham education authority for not acting quickly enough on reaching an agreement for the closure. He felt that the scheme to keep some higher education and teacher education in South Durham could have been approved.

He was also critical of the waste of resources. "As a taxpayer I resent the spending of money on creating colleges which are then closed. To create similar facilities would cost between £3m and £5m. It was only in 1968 that the Government decided to convert the former bomber station we occupy by Teesside Airport and develop a 6-acre campus. We have also had halls of residence built for nearly 500 students."

"The only future I can see for the college is possibly as an open prison. The matter it seems will now be passed to the Durham land agent."

The joint statement warns that the new grant of £355 in London would consolidate the state of affairs whereby maintenance grants had been jeopardized by universities and colleges not adhering strictly to UGC rules.

Professor Dennis Walland on a new biography of Emily Dickinson.

Three pages of social administration books: Paul Halmos on the welfare state

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Hongkong rekindles challenge

"The main reason why I came here was for my family. My sons are at university. I wanted to work abroad again. I knew North and South America very well, but the Far East is an area I had no knowledge of. I came out here first to see what it was like, and was most impressed with the enthusiasm. Once somebody decides something is to be done, people quickly get down to it. Instead of talking about it. This is quite apart from the fact that the growth rate of the polytechnic is phenomenal, even though it is at a fairly early stage of development."

Dr Legg believes he has a unique opportunity to influence that development. "I find that attitudes here have not yet settled; in the UK they are entrenched and any changes must take place more slowly. But then England is a highly developed society with sophisticated industry and commerce whereas in Hongkong there is a great deal to be done."

"Industry here has gone through the initial stages of being able to exploit cheapness of labour. It must now become more competitive by turning out more complex products. Commerce is using more complicated techniques, and education must produce the right sort of person to cope. After all, Hongkong's only natural resource is its people."

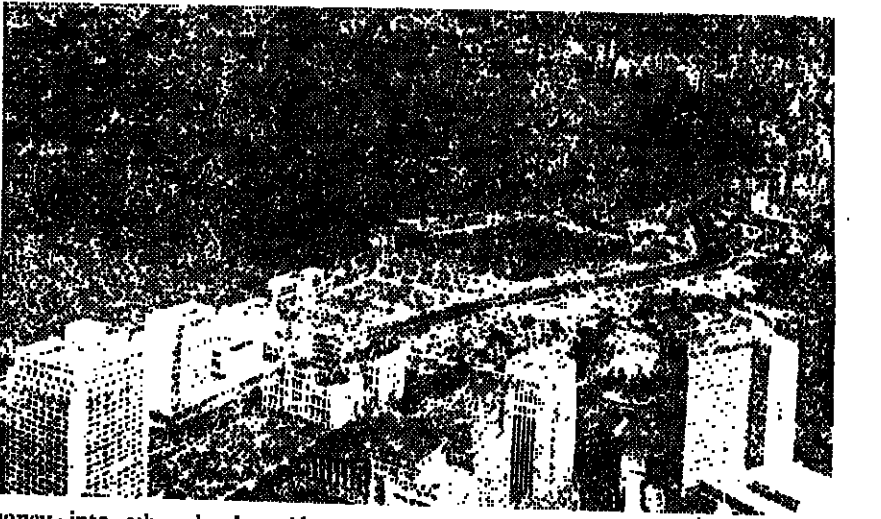
"I came in May 1975 on a four-year contract, and will be here until I have set the poly moving in the right direction. I reckon it's a job for between four and six years, certainly no less than four years. I believe I will do this and one other major thing before I retire."

"At the moment the economic climate looks very good for Hongkong, and we have produced a completely new polytechnic development plan. I believe the staff here are better qualified than the average teacher in the UK. More significant is that they have an average of seven years' professional experience in addition to seven years of teaching."

"I left the UK at a time of particular problems with higher education. It is well known that the local education authority in Coventry was not really supporting the poly. Most of us felt that polytechnics were a burden on rates at a time when the Government was asking to put more



A year ago Dr Keith Legg resigned as director of Lanchester Polytechnic, Coventry, to take up a £14,500 a year post as director of the developing Hongkong Polytechnic. Former pro-vice-chancellor of Loughborough University, Dr Legg had only been at Lanchester for three years. In his office in Kowloon, he described the reasons for his move and his experiences during his first year at Natallie Graham.



money into other local problems, most of them having to do with the individual's priorities, which was not the way to develop the polytechnic."

Dr Legg compared the system of funding in Hongkong with that in the United Kingdom. "Here we are funded by a joint committee called the University and Polytechnic Grants Committee. We are quite an autonomous body. Basically, our funding is rather like that for universities in England. This is another reason why I was interested in coming here."

"No doubt what intrigued me most was the fact that there are few places in the world where an English person could go and head some new institution. I would expect that when I move on a local Chinese will take my place, as has been the case with Hongkong University."

Dr Legg said he might like to work again in a developing country. "If the same opportunity came along again I would not mind doing it. I have always been involved in developing things, such as aerobics work in Brazil. I took the Lanchester job specifically on the basis that it would develop from 3,000 to 7,000 students."

Commenting on current United Kingdom trends, Dr Legg said: "Although I believe in cutbacks during a recession I think that in fact Britain is putting education too far down the list. Education in

terms of priority has gone down considerably, even its ranking in the Cabinet. In England there is a need for more central planning in higher education, and this does not exist. I believe they are now considering a reorganization on a regional basis."

He did admit, however, that unsatisfied demand for higher education was much lower in the United Kingdom than in Hongkong. "In places that do not exist, further their studies, but this is not the case in Hongkong."

"Already the demand for places in higher education is enormous. There are 50-60 applicants for each place. At the moment advanced education offers 4,500 places per year. A population of four and a half million, and over half the people under 25 we could say that really 50,000 places are needed."

Applicants are sifted to the point where they are interviewed. School leavers who have worked since the age of 13 and taken night classes are often more suited than those straight from school with A Levels. We are trying to limit the intake in such a way that we take a proportion of different levels of ability."

"Age here is very different. There are people in their teens in the primary system, and some secondary students are in their twenties. The maximum starting

age at the polytechnic is 20-24. There are quite a lot of girls, mostly in business studies, accountancy, design and textiles."

Dr Legg went on to describe how the Hong Kong Polytechnic caters for students' personal problems.

"We have a student welfare officer, a resident nurse and a doctor who comes every afternoon. There are strong family ties here, which do not exist in England. The Chinese students are basically much less mature. Nearly all of them live with their parents in a close knit situation. I think this is a national trait and maturity is delayed by the shelter of the family."

"By far the greatest problem is failing examinations, which means a tremendous loss of 'face' with family and friends. If we have large tutorials in the polytechnic it is very difficult to get the students to discuss things, because they do their collages and teachers. But it is quite different with a group of two or three students."

"We have, deliberately included a new way of teaching in our plan, placing more emphasis on self-learning and individual and group tutorials."

"We have quite a high drop-out rate because a number of students get the opportunity to go to university or study abroad. Lack of money is another factor."

"There is a problem of money for fees, as 30 per cent of the students are on grants. The average earnings of the Hong Kong people are about \$100 a month. The Government is supported by the banks."

Dr Legg continued: "Some full-time students work over 10 hours a week, though I have more than those taking evening classes. Industry and commerce are not conditioned by release for their studies, although there are a number of industries who do. In a way only have in education but also in industry and commerce."

On the whole the staff had few problems adjusting to the new environment. "People put themselves out to help but a great desire to help others but have no desire to learn for an hour or so."

Although Dr Legg has about leaving Lanchester, there is no finer place than here to live in."

"I must say I liked it at Lanchester longer than I thought I would. I wanted to leave there which I did, but I found it was a tremendous enthusiasm and quarters as everyone went to the polytechnic development."

How Leeds saved the news for posterity

Much of the significance of the General Election in February, 1974, was conveyed to the electorate by radio and television news broadcasts which could be important to future historians wishing to chart events leading to the Tory victory.

Yet, were it not for what started as an ill-fated project at Leeds University, they might never have the opportunity to see them.

Broadcasting organizations keep as little as 10 per cent of their total output, the rest is thrown away. Therefore, although newsreels of the 1930s exist because companies in those days did not think they had the right to destroy them, there are virtually no records of news broadcasts during the past 20 years.

Professor M. Stoddart, Secretary of the Film and Sound Records Project, at Leeds and director of the film and sound records project, is a well known authority on the subject. He has been recording all radio and television news bulletins and all associated current affairs programmes of the 1974 election.

"The February election was obviously going to be of great significance; and by the time much research had shown that the impact of television and newspapers on the electoral choice to be made, therefore, that had to be the material from the 1974 election. It would be a crime if we did not do something about it."

So with the staff of Leeds University Television Service, whose director is Mr Derek Holroyde, he recorded as much as possible of the broadcasting output during the campaign. This included all national news (the whole bulletin

was recorded so that researchers would be able to determine the priority and air time given to election items), all national current affairs programmes, including news bulletins, and as much regional Scottish programming as possible. Under the Copyright Act of 1956 no-one is allowed to record and retain broadcasting material except for private purposes, and even then it must be destroyed by the broadcaster. The election was not time before from the broadcasting authorities, and the authorities were informed immediately afterwards, together with a request for some sort of agreement to be worked out.

The agreement had to ensure that the broadcaster's copyright obligations to their copyright holders, the broadcasting organizations, be safeguarded; second, that the material should be retained for the historical record, and third, that the material be accessible to the researchers.

After nine months' negotiating an agreement was worked out whereby the BBC and the Independent Television agreed to license Leeds University to record and retain, on the current affairs output, the news and time, including reference to the election, the Social Science Research Council agreed to finance the recording of the election material and became signatories to the agreement.

Since then, under the project, which is coordinated by Professor P. J. P. Chapman of the School of History, Professor Joy Blumkin, director of television research, and Mr P. J. P. Chapman, director of the BBC referendum, have been recorded. Altogether there are some 500 hours of television and 250 hours of radio material on tape and videocassette.

Another reason why broadcasters do not keep more material is that for some programmes there is no tape to keep; the programme is inserted into the format of the programme at the time it is actually transmitted.

So far, there is no anything for them to preserve," Mr P. J. P. Chapman said. "What is kept at Leeds is selected on the basis that it might be used again rather than on historical criteria."

On the issue of access, the project embodies the same principle as apply to all collections of papers and historical documents: the university library has the right to make the material available to the public, either by electronic means, or by making it available to the public in the form of a book or a tape.

The most concentrated study of the 1974 election has been in connection with the Labour parties and the Independent Labour Party.

So far the recording project has continued to expand, but it may find itself in a wider brief. "Clearly the body of current affairs material is growing," Mr P. J. P. Chapman said. "What we are working on is to evolve a system whereby the whole of the current affairs is preserved, and there would have to be a new agreement for that."

In the meantime, what the project has achieved was to show that the preservation of the material, both legally, economically, and without great storage problems, is possible. "And when you think that according to a recent estimate, the broadcast material is regarded by four fifths of the population as their main source of information, you need to preserve it."

Leeds are small and accessible, and the minimum of equipment. Very little money needed to be spent on equipment. The Television Centre, which is well provided with

equipment, the university purpose-built audio-visual centre, and the Leeds University automatic recording machine enable the project to be carried out without supervision.

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Britain: few qualifications placed on grants.

European trends in foreign students' fees that Britain has not followed

The retention of registration and tuition fees for foreign students by a handful of countries, including Britain and Ireland, should not be allowed to hinder increasing student mobility, according to the authors of a recent Council of Europe report.

While rejecting the possibility of harmonizing fees and study support systems across the continent, they warn against the possible effect fee discrimination might have in discouraging foreign study.

In the short term, they suggest that student cards be made more international so that foreign students, whether on full-time courses or not, could gain equal access to indirect benefits such as subsidized board, lodging and travel.

More significantly, however, the report and the 20 national studies which go with it—embracing all Western Europe except Spain—show that Britain is one of the few countries not to have followed the trend towards abolishing fees and adopting a mixed grants and loan system.

Prepared for a meeting of the council's committee for higher education and research held at Lund, Sweden, the report lists Britain, Ireland, the Netherlands, Belgium and Switzerland as the only five countries still charging tuition fees to virtually all students.

Three countries have abolished them more or less completely, while France exempts grant holders, Italy exempts grant holders and those from poor families, and Portugal gives students the possibility of total or partial exemption.

The situation for foreign students is harder to ascertain as only 14 nations provided the relevant information. However, a majority of those who did make no distinction between home and overseas students and of the rest, only Britain and Ireland automatically charge higher fees.

Foreign students in Belgium and Cyprus also have to pay higher fees, but only for studies at two institutions in Cyprus and when they make up more than 2 per cent of the total of home students enrolled on the same type of course in Belgium. Other countries levy the same fees for all, but of these Austria and France exempt scholarship holders and Italy allows them a 50 per cent reduction.

The national studies show that all nations except Malta offer some sort of aid to students, but only Britain, Ireland, Belgium, Austria and Switzerland restrict themselves to grants. Most of the rest operate mixed systems—often with an emphasis on loans—a solution currently also being examined by the Austrians.

Outside the British Isles grants are usually seen as a way of relieving rather than removing the financial strain on families who are still expected to provide the main element of support. And in countries where loans are supplemented by first degree studies—a masters' degree as there is no equivalent of such studies—mean that they have to be made also differ range from 20 to 25 years in Sweden to a time twice the length of studies in Cyprus and Finland. In Norway

£310 for first-year students to between £295 and £410 for those in later years.

In addition, student or parental income thresholds in Belgium and France are sufficiently high to result in only 40-45 per cent of Belgian students and 13 per cent of French students receiving grants. In France students of parents with two dependants earning more than £1,705 (14,500 French francs) are ineligible for awards and in Belgium the corresponding figure is £3,385 (255,938 Belgian francs).

Support in the Netherlands and Federal Germany, where grants are supplemented by loans, is more universal. All German students qualify for monthly allowances of £39 (DM410) if they live at home, or £109 (DM500) if not. However, these figures include basic interest-free loan elements of DM70 and DM80 respectively. In the Netherlands the larger loan share of support is interest-free at 8.75 per cent.

The charging of interest in countries favouring loans rather than grants is now usual, largely because of the effects of inflation. The Dutch authorities abandoned interest-free loans when they found that students were only repaying 50 per cent of their real value and in Iceland, where the value of the currency has plummeted, the figure was as low as only 15 per cent.

Current interest rates range from that charged by commercial banks in Denmark, between 12 and 13 per cent, to Iceland's 5 per cent. Of the other loan-favouring countries, Sweden operates a cost of living related interest rate and in Finland the Government pays 4.75 per cent to the students' 4.25 per cent.

Actual loans depend largely on costs within each country. Sweden has the highest costs of living in Europe: of the 1975-76, 14,000 Swedish kroners (£1,772) a year as well as an additional 2,500 Skr. (£316) for each child a student has under the age of 16. Danish and Finnish loan maximums on the other hand are around the £1,100 mark.

Most loan countries operate some form of supplementary grant support. In Iceland it comprises scholarships to the brightest school-leavers. In Norway it covers the cost of living away from home and in Sweden and Denmark it amounts to state relief in keeping down otherwise impossibly high loan debts.

Repayment rules are vitally important to graduates starting work and families. They can also provide a useful weapon for the state in discouraging study failure. Most countries show a period of between one and five years between graduation and repayment, although this can become somewhat academic where interest is high and charged from the time the loan is made.

British students, for example, are reluctant to delay repayment when present interest rates compounded over the usual six years of their first degree studies—a masters' degree as there is no equivalent of such studies—mean that they have to be made also differ range from 20 to 25 years in Sweden to a time twice the length of studies in Cyprus and Finland. In Norway

it is wisely related to both the size of the loan and the anticipated income of the borrower.

The criteria for receiving grants and loans are usually the same: the income of the student and his or her family and satisfactory academic progress, although income is less important in loan countries, particularly in Scandinavia. The location of studies in relation to home is also important in determining size of support.

Unlike Britain, where few qualifications are placed on grants, apart from completing studies within the normal period, many nations offer a range of sanctions and incentives. Perhaps the greatest is Luxembourg's offer to convert loans into grants if studies are successfully completed.

Rules on academic progress include France's that students cannot change study course, the Greek demand for 'good conduct', and annual progress reports in the Netherlands. Also, in Federal Germany, students have to sit an examination at the end of their fourth term.

The most stringent rules are those of Turkey. There, grants are not available for married women, the handicapped and those who cannot obtain certificates from their faculties as to their 'diligence, honesty and loyalty'. In addition, loans must be repaid almost immediately and within a period the same length as studies if students drop out. Aid also ceases if a course has to be repeated.

Assessment of means is usually carried out by a government agency or local authority. In Portugal, however, documentary evidence must be supported by consultations with a social worker, and in Cyprus, where loans are obtained from two banks.

The report draws few conclusions, but it is noteworthy that the trend towards not loans but grants and loans together. While the expense of grants is often restrictive loans cause repayment problems. Supplementary grants offer the possibility to tie the remaining loan element to a realistic interest rate.

Another reason for the drift from pure loans systems may be that many governments currently have policies to try to equalize lifetime earnings, which, if successful, would penalize those burdened by large study debts.

But in the end it is very much a case of one man's equality is another's inequality. In Britain the staunchest supporters of the present grants system are the Labour Party who see it as a means to the support to family income size. In Sweden the Social Democrats' colleagues argue that loans not only provide equal access to higher education, but also reduce inequalities in later life, graduates having to pay for the privilege of raising their income prospects.

The implication of loans, however, is that students must get value for their money. Graduate unemployment becomes less tolerable and the state often has to take a greater role in strengthening manpower planning in education, a step both controversial and far reaching in Britain.

Mike Duckenfield

Picture-postcard college with eye to real world

One of the more surprising quips made by Mr John Wyatt, principal of Culham College of Education, is that the Oxfordshire countryside surrounding his college possesses more holders of sheep than sheep.

That statement is designed to shatter the deceptive rural image that surrounds Culham, an Anglican college situated near picture-postcard villages in the Thames Valley. Culham, in fact, serves a major area of professional, white-collar commuters and also a number of highly sophisticated industries from atomic energy to technological firms in Wallingford and Didcot.

The large number of professional people in Oxfordshire, together with the college's special links with a local council housing estate and the East End of London, are two points in the college's case to develop as a national teacher-training institution and also a local adult and community college.

Culham is the last of 17 colleges facing closure under the Department of Education and Science's present reorganization of colleges of education. The Government has a choice of closing Culham or the College of St. Dunstons, both in the London borough of Haringey.

Although the department has not made up its mind, the recent decision to close three Anglican colleges included a rider that Culham rather than All Saints should cease to exist. Although no final decision would be made until after the college had made its representations.

Since then the Church of England Colleges working party, which examined the merits of the college's case, has by contrast reaffirmed its decision to retain Culham rather than All Saints. A decision is expected to be announced soon since the Government must decide on the intake to all colleges of education for September next year.

Mr Wyatt is placing great hopes on the college keeping its role as a national teacher training institution. The college has successfully applied to the Council for National Academic Awards for validation of a new bachelor of education degree with an intake from September next year.

At present validation is with Oxford University, but the college will eventually switch entirely to the CNA.

The college was founded in 1852 by Samuel Wilberforce, Bishop of Oxford, as a men's institution. It was through Wilberforce's efforts that the end of both World Wars, and is now facing its third challenge to its existence since 1918.

The massive expansion of teacher training in the 1960s led to the doubling of the size of the college. Women were admitted for the first time in 1967 and now form about half the students.

Its contribution to the training of teachers, including its interest in special education, has been acknowledged outside. Dr Harry Judge, director of the department of educational studies at Oxford University and a member of the James Committee on teacher education, said: "Culham has provided a long tradition of high quality teacher education which would be greatly missed in Oxfordshire."

The ability of the college to organize a coherent teacher-training course certainly impressed the CNA. The college is in fact one of the few to get quick approval for its size.

Culham's secret has been to concentrate on small numbers of subjects and to develop them well rather than attempt a wide range of courses. The main subjects

cover special education, youth and community work, religious education, music with main subjects in English, history, geography and science.

The rationalization expert on Circular 1/76, has seen the end of major studies in physical education, mathematics, design and French, which will leave the college if it has fewer numbers, to concentrate on its strong courses. There are no plans at the moment for any bachelor of arts courses although the college has an interest in the diploma in higher education, possibly connected to degree courses at polytechnics or a university, especially in social work.

Approval from the CNA or plans for new courses are not enough to justify its future. Mr Wyatt believes that the community and Christian ethos of the college is another of its strengths. He calls his college a "Christian learning community" but shuns dogmatic approaches.

"I am not interested in sectional bias or in an exclusive Anglican community. We are keen to welcome people from all faiths or none at all provided they are prepared to be open minded." Mr Wyatt even admits that his vision of a pluralistic community extends to the Marxist or Atheist, who can often provide the religious minded with a real challenge to their beliefs.

Many of the new plans for the college have been coordinated by Mr Andrew Henderson, general director of studies. He comes from the unusual background of local authority work rather than traditional teaching.

He has provided the impetus for presenting a coherent case to the CNA, one of a number of people in colleges whose careers have been dramatically changed over the last few years because of the need for curriculum planning. He also provides the spearhead for the youth and community work programme which has links in East London with the boroughs of Hackney and Tower Hamlets.

The college regards its links with the East End as one of its virtues showing that it is not a sleepy rural institution sheltered from the problems of the outside world.

Mr Wyatt claims that the college has moved to attract a number of students from working class areas because of its interest in special education and youth work. "Many students like the idea of training in a different environment from their home background. They enjoy the prospect of being able to come out from London and train in an area surrounded by pleasant countryside. We then find that refreshed by their experience they are prepared to go back and work in areas like the East End."

He cites a number of examples of dedicated, idealistic students who have taken up appointments, including one who is working in a youth centre on the Isle of Dogs and a number teaching in Tower Hamlets and Hackney and have survived.

The future of Culham is now, however, firmly in the hands of Mr Pinner, Minister of State overseeing Higher Education. He has already made it clear (THE, June 4) that small institutions of 450 students are at risk because they may not be able to diversify. He is prepared to leave a number of rural colleges which have a strong case on academic and recruitment grounds.

Whether Culham falls in this category is now a matter for the minister's judgment.

David Hencke



Culham College's new teaching block.

More hopeful times for Ted and Jeremy during 1974.

Time to reappraise the Technician Education Council

When the Technician Education Council was set up in March, 1973 after some four years of waiting, it was heralded as marking the introduction of a new era in further education.

Three years later, there is not only a growing concern about likely outcomes but also an increasing climate of disillusionment about whether much that is really worthwhile will eventually be achieved. To understand why this should be so, we need first to remind ourselves of how TEC originated.

In 1967 the National Advisory Council on Education for Industry and Commerce (NACIEC) established a working party under the chairmanship of Dr R. L. Haslegrave to "review the provision for courses suitable for technicians at all levels (including corresponding grades in non-technical occupations) and to consider what changes are desirable in the present structure of courses and examinations."

The need for the review was twofold: firstly, that the existing provision was both complex and inflexible, and secondly, that the concept of a "technician" had changed very substantially in recent years.

When the Haslegrave Committee reported in 1969 it recommended the development of a much more unified system of courses and examinations than we have at present and advocated the establishment of two major bodies: the Technician Education Council (TEC) and the Business Education Council (BEC).

Four years later TEC was eventually established, its terms of reference announced by the Secretary of State for Education and Science being "the development of policies for schemes of technical education for persons at all levels of technician occupations in industry and elsewhere."

TEC was required to plan and keep under review the development of a unified national system of courses for such people and to devise or approve suitable courses, establish and assess standards of performance, and award certificates and diplomas as appropriate.

The TEC was established three years ago to develop policy for all levels of training. Iolo Roberts doubts that some of its aims can be achieved under the present organization

In its preliminary statement, the council interpreted its role as being principally concerned with setting standards, awarding qualifications and promoting advances in technician education. In addition it emphasized that it did not see itself as primarily an examining body.

Another important function would be to produce a more rational and simplified range of courses avoiding unnecessary duplication of provision.

A detailed examination of the subsequent policy statement highlights some important features (see below) which are not always sufficiently recognized.

First, since the council is not primarily an examining body the examining must be undertaken elsewhere; in this instance within the colleges, with TEC acting as the validating body, very much on the lines of the Council for National Academic Awards.

Secondly, a rational and more simplified range of courses provides the basis for just four awards, the Certificate and Higher Certificate, and the Diploma and Higher Diploma.

However, implied in such an approach is the assumption that the current dual provision—City and Guilds plus National Certificate/Diploma—can be replaced by a common system suitable for the whole ability range, a challenge comparable to that being faced by the Schools Council in rethinking the 16 plus examination system.

The preliminary statement also includes the following brief paragraph on curriculum development: "There will be a continuing need for programmes to develop and be adapted and for new schemes to be introduced in line with the changing needs of industry and of the students. TEC will both participate in curriculum development and encourage development work on the part of others."

Hindsight suggests that it is here that we have the underlying cause of subsequent concern about developments in the past three years. The council has from the outset allowed its curricular function to be secondary to its organizational role.

The council's chief officer is supported by a small but growing number of full-time advisory staff, the administrative services being provided by City and Guilds of London Institute staff who work full-time for TEC. However, the major responsibility for designing programmes for study has been devolved to 22 programme committees grouped together in three sectors.

While the total membership is around 400 divided equally between education and industry, the initial selection procedure seems as though it was based more on a need to balance the numerous interests existing for representation than on proven curriculum expertise. Furthermore there is a real danger that the eventual outcome will be the development of a highly bureaucratic two tier organizational structure.

All committees work to a brief that programmes or schemes of study should be designed on a unit approach, a unit being defined as "the knowledge and skills which the average student will be able to acquire in 60-70 hours of study in college."

Within this framework there will however be two basic types of schemes: those completely made up of TEC standard units and those based on units designed by a college or group of colleges or alternatively combining standard and college units.

The aims of programmes leading to the council's awards as defined in the relevant administrative circular (TEC 3/75) include:

A2. Every programme should aim

to develop the student's ability to think, to grasp ideas and to communicate effectively. Adaptability, curiosity, self-confidence, independence of thought and the power to make critical judgements are personal qualities that should be given every encouragement to grow.

A3. Programmes must always be devised with full regard to modern industrial requirements and take account of any formal training which a student may be receiving.

The student should be helped to achieve a worthwhile combination of knowledge and skills and these should be appropriate to his vocational needs.

How realistic are such aims and how feasible is it to translate them into effective action? Consideration of A2 raises at least two major issues.

Regarding the basis for their selection, the Training Services Agency discussion document *Technicians, A possible basis for a TSA Programme* succeeds, by adopting a United States Office of Information publication, in providing a list of "special abilities required of and activities performed by technicians". However the whole ethos of the document relates to the importance of identifying what the education and training needs of technicians really are.

If, on the other hand, one assumes that the council's thinking about attributes is reasonably sound, what justification can TEC provide for its apparent willingness subsequently to accept programmes which are in essence very little different from the knowledge-dominated syllabuses currently characteristic of so many FE courses?

While the emphasis within A3 on the need for all programmes to be appropriate to the vocational needs of students is surely justified, the achievement of such a bias is predominantly dependent on the

extent to which "modern requirements" can be identified. To date, there is very little useful research available on such information.

What of TEC's financial situation? Funds allocated to the council by the Department of Education and Science for 1975-76 were £1,300,000. When salaries and other administrative expenses are deducted, the remaining £1,000,000 is divided among the 22 programme committees. How can there be money left over for curriculum development in the accepted sense of the term?

In the light of the finding that there is a growing cynicism both within education and industry about development, particular there is cynicism about the eventual role of local education authorities.

Although the council can take credit for the various activities which are not undertaken by local education authorities, the council must without further delay examine its administrative structure.

In particular, it should consider whether it would not be better even at this late stage, to open a much narrower but more focused area of activity.

A concentration on a smaller number of selected areas would make it possible to undertake the necessary work in partnership with industry—local and national. The TSA in particular, to be the studies and thus what is being attempted effectively to anticipate the implications in terms of its (in this context the increasing requirements, are more exacting) and to attempt a more exacting exercise to identify the needs and future course of work in the region.

The author is senior lecturer in education at the University of Keele.

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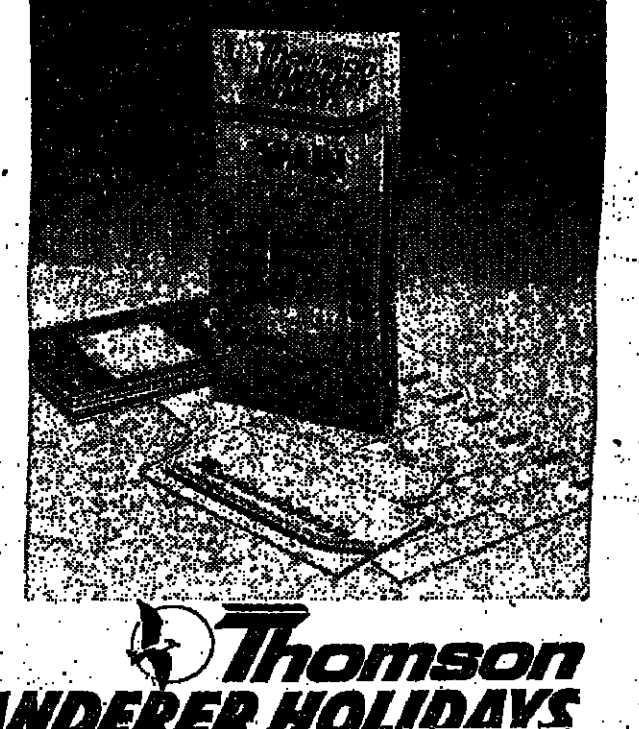
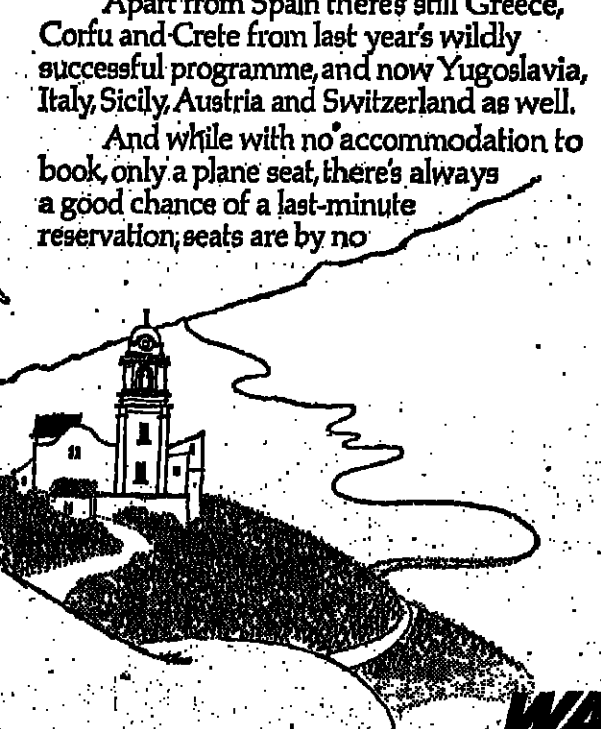
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The author is professor of education at Newcastle University. The article is based on a study published in *The University of Local Politics*, Oxford, Education, Vol 2, No 1, 1976.

Are the public really against universities?

It seems generally conceded in academia that the outlook for the universities is poor. As does pour out into the world which seems suddenly to have become hostile they are tempted to think that hostility is general throughout the population.

I think such a view unduly pessimistic, and a backward glance may do something to keep it at bay.

There was in Oxford in the 1960s a feeling that town regarded gown with some hostility. Max Beloff, the Gladstone Professor of Government, remarked in 1969 that "the presence of the university has ever since the Middle Ages been regarded by some of the citizens as an excrescence; as though they did the university a favour by permitting it to be there."

Mr Garry Bowler, now Minister of State at the DES, was, in the early 1960s both a don and a member of the Oxford City Council. He thought that for the ordinary people of Oxford, and particularly for those to the east part of the city whom he represented, the traditions of the university were "fashioned and anomalous."

From conversations in the university I would judge that others, although not so outspoken, shared this general view. And the view was not unreasonable for there were points of conflict and open controversy. One of the sharpest of these points was the question of university representation on the City Council.

I was engaged in a study of town-gown relations when this controversy was at its height and took the opportunity provided by a survey in the city on this general theme to ask some questions on the particular topic of representation. Given the general pessimism about town-gown relations and what most people would regard nowadays as the anom-

aly of any sort of special representation the answers to our questions were surprising.

In the 1960s the university elected its own representatives to the Oxford City Council quite independently of the general franchise. The council had 68 members, 42 of these were councillors elected in the ordinary way from the seven wards of the city. These 42 elected 14 aldermen.

The university elected nine councillors, and these nine elected a further three aldermen.

An attack was launched on university representation in 1963 and the subject was debated in the city press, in the city council and in the press. No one seems to have defended the university in terms of any theory of democracy although its supporters suggested that the special system had provided some good councillors who might not have come forward if they had had to contest a seat in the ordinary way.

On the other side, university representation was seen as best as old-fashioned and anomalous. The fact that 54 heads and bursters were permitted to elect the same number of councillors as the 17,000 electors in Cowley was thought to be little short of an outrage likely to bring political passion to the boil and greatly inflaming opinion against the university.

The city council, however, when it came to debate the matter was not entirely of a mind, and it was decided to ask the university to reduce its representation from 12 to four. The university agreed to a reduction, but the parties were deadlocked because the university insisted on eight.

At this point we interviewed 238 people living in the city, but not members of the university. We found that 53 per cent knew of the controversy about representation; 47 per cent told us they had never heard of it.



Some in Oxford did not like students—migrant, aloof and often arrogant.

Asking them how they stood personally on the issue, 86 per cent declared themselves in favour of special university representation and 14 per cent opposed. In respect of the number of university representatives, 70 per cent wanted the situation to remain as it was, 17 per cent wanted a decrease and 13 per cent an increase.

The principal feature to emerge from questions about the advantages and disadvantages of university representation was a recognition of the importance of the university to the life of the city. Some thought that university representation was a natural consequence of this importance, although others were doubtful of its influence by special political arrangements.

There were some suggestions that university representatives were more objective and high-minded than the usual run of local politicians, although this view was not shared by one young man who told us bluntly that "university people like to feather their nests."

Generally opinion was in favour of the university, even on like this in which way would regard the university as difficult if not impossible to defend.

In the town there was a feeling that the university without its critics, but with the large majority of people with great good tolerance and in many cases approbation.

The widespread hostility some were persuaded could not be evident in this survey. It was fully admitted themselves that opinion is not always what who claim to speak on it say it is.

Politics and journalism constitutes a system separate from the rest of the society. These systems generate their values, priorities, excitements, inhibitions and silences and at best an imperfect reflection of the whole society.

Journalists are expected to entertain and excite as well as to inform. And it can well be imagined that a few politicians, meeting in committee room since at least achieve levels of consensus shared by the population at large.

They may well believe that the great mass of people share their views. In assuming that public opinion accurately reflected in newspapers and in political speeches, opinion was never a representative of universities as have been imagined when Robb's reports appeared, not as critics and hostile as we suppose today.

But universities make a mistake in assuming that public opinion accurately reflected in newspapers and in political speeches, opinion was never a representative of universities as have been imagined when Robb's reports appeared, not as critics and hostile as we suppose today.

Peter Colling

The author is professor of education at Newcastle University. The article is based on a study published in *The University of Local Politics*, Oxford, Education, Vol 2, No 1, 1976.

مكتبة الأصل



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Bankrupt New York looks for ways to reopen

The closure of the City University of New York (CUNY, June 4), one of the largest university systems in America, means that more than 270,000 students have had their final examinations and classes disrupted.

Graduation ceremonies for another 20,000 which were to have been held between June 3 and 15 have been postponed until the end of the month.

And some 18,000 full-time and part-time teachers have been sent home without pay other than the State's legislature approves an emergency aid package of \$24m or until the new fiscal year begins on July 1.

The immediate cause of the shutdown was the decision of the city to cut the university budget by \$55m after the university refused to begin charging tuition fees.

Delicate negotiations are now going on between the legislature and New York's Board of Higher Education, which controls the university. There are indications that no aid will be approved until the university is reformed.

The university's chancellor, Dr Robert Kibbe, called the closing a "horror" but was hopeful that the university would reopen in time for the summer session.

The chancellor's action has caused

consternation among students, staff and the general public, who see the closure of the prestigious university as a sign that the whole scheme of financial rescue for the hard-pressed city of New York may begin to fall apart. This is the first time that any institution within the city has been unable to pay its employees.

Within the university, however, tuition fees remain anathema. Many of the students are from families which cannot afford to pay tuition charges, and they have repeatedly expressed their opposition. Dr Kibbe himself is equally upset but said he could not envisage any way in which CUNY could operate next year without fees.

The shutdown has been a real possibility for many months now. Indeed, a four-week enforced holiday without pay was one of the proposals advanced by Dr Kibbe and approved by the Board of Higher Education earlier this year as a means of balancing the budget for the remainder of this academic session. However, it never went into effect.

Sudden closure now is bound to inflict lasting psychological damage. A number of CUNY's top professors and lecturers have already begun to seek jobs elsewhere and the administration fears that the university's proud tradition of helping the city's poor gain a first-class education has now been brought to an irreversible end.

San Diego considers reform of first two years

One of California's largest universities is taking up a challenge, that many people believe to be one of the most urgent now facing universities: the reform of the first two years of undergraduate education.

San Diego State University, with 32,000 students and primarily an undergraduate rather than research institution, has set up a special committee to examine the general education course.

Last month this committee sent all staff and students a draft document outlining the aims of the firstman and sophomore years, the criteria for individual courses, and how courses could achieve some thematic unity.

San Diego, along with many other universities, believes the first two years are now continuing to "dilute" the range of courses so wide that choice has become difficult, and some divisions seem arbitrary, and some courses added at the height of student unrest, unnecessary, and some "core" subjects need greater emphasis.

One of the main reasons for this reexamination is that many of the students transferring to San Diego from community colleges, having already taken a number of general education courses, found that their credits were not accepted.

As the largest and most prestigious unit within the 19 campus State university system, San Diego's lead in examining which of its courses measure up to its new criteria will be closely watched by the other campuses and the community colleges.

The focus of general education, the university has now agreed, "is the individual as a human being and a citizen rather than as a physicist, historian or engineer". The programme should not concentrate on "covering" established bodies of subject matter, but on uncovering the complex interaction between past and present, human life and nature, technology and human values, the real and ideal, the individual and the mass. Courses should help students see the relationships as clearly as possible.

Last year the Senate approved three divisions of the programme: basic subjects—English composition, mathematics or logic and oral communication; foundations of learning—life, sciences, social sciences and the humanities; and what it termed the "Human Experience" where all general education courses "should be earned".

San Diego is now asking all teachers to submit suggestions for levels of competency expected, subject areas, included, and how the courses differ from the way they would have been designed if offered as a major.

The university is not expecting any quick change. The Senate will consider final proposals in November. One of the difficulties is that teachers have entrenched interests in their own courses, and any attempt to "rationalise" or reduce the options could meet opposition.

But in many ways the exercise is designed to restore some of the fundamentals that were thrown out in the late sixties, and has thus won general acceptance from the staff.

Top science body launches worldwide 'freedom' call

Scientists all over the world are now being sent copies of a declaration drawn up in Washington by the National Academy of Sciences affirming the principles of freedom of inquiry and expression.

Scientists are being invited to sign a document dedicating themselves to the support of intellectual freedom, the free dissemination of ideas, freedom of travel and publication, freedom of speech and the worth and dignity of each human being. Signed declarations will be stored in the academy's headquarters.

The declaration was approved by academy members last month and is the result of considerable agitation for a more forthright stand on scientific freedom in the Soviet Union and other countries.

The academy operates a number of American scientific exchange agreements, but, except in the case of Andrei Sakharov, has never issued a public protest over the treatment of scientists and dissidents in the Soviet Union.

Instead, the academy has preferred private face-to-face representations which are possible because of the large number of in-

ternational gatherings and contacts. Copies of the declaration are being sent to every major scientific body and institute with which the academy has dealings. Already a number of copies of the statement printed in scientific journals have been signed and returned to Washington.

The academy is leaving it up to individual bodies to decide how to publicise or distribute the declaration. But it is not asking institutions to sign as a body for fear of causing argument and dissent within them.

In the case of the Soviet Union, copies will be sent to the major academies, and it is hoped that even if they are not distributed, scientists will get to hear of them individually.

Mr Murray Todd, executive director of the academy's commission on international relations, said members recognised that the declaration had no more than symbolic value. But they felt the time had come to make a public stand.

The academy has also approved guidelines for its new aggressive stand over what its members consider violations of human rights, recognizing that such violations



Dr Sakharov: symbol of dissent.

"occur in many—perhaps all—tries".

The guidelines say the academy will investigate any individual brought to its attention, and will inform the community, the Government and international organizations such as Amnesty International.

It will continue to remain influential in many countries, but will be unable to imply that the legal responsibility of any act lies with the nation to which it belongs.

Senate chairman emphasizes need for high standards

There is no getting away from the fact that universities which receive money from the Federal Government must accept certain responsibilities. In doing so, according to Senator Claiborne Pell, chairman of the Senate Education Subcommittee.

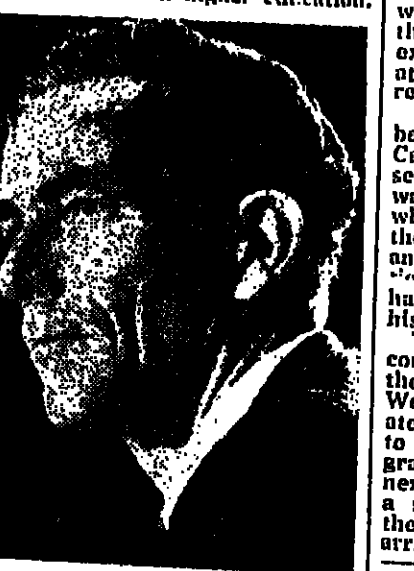
Congress has sole responsibility for formulating educational policy, but the executive—the President—has the duty to carry out the policy. Pell said.

Mr Pell, a Democrat, said he was not sure if the President's role was to enhance your powers of employment. He said he was not sure if the President's role was to enhance your powers of employment. He said he was not sure if the President's role was to enhance your powers of employment.

standards of literacy and falling scores in scholastic achievement tests. There should be greater emphasis on "quality education" so that a degree would mean more than it now does: graduates should be able to read comprehensibly and write grammatically.

Adult and continuing education was where the emphasis should be. "I would like to see more emphasis on general education, recognizing that its purpose is not so much to relate you to the job but to enhance your powers of employment," Pell said.

Since becoming chairman of the subcommittee in 1969 Senator Pell has moved cautiously, and some would say hesitantly, but the introduction of Basic Student Grants in 1972, for which he takes much credit, is now recognized as a major step in American higher education.



Senator Pell: quality matters.

\$58m grants boost for 'developing' colleges

The Department of Health, Education and Welfare has awarded grants totalling \$58m to 32 two-year colleges over a two-year period.

The grants range from \$1m to \$3m and are highly competitive. Colleges getting the money are those showing an ability to educate students for employment or professional schools, and a desire to revitalize existing curricula to accommodate educationally disadvantaged students.

All colleges applying must qualify as "developing". They must be accredited by an officially recognized agency and they must generally have been in operation for at

least five years.

and Tuskegee Institute in Alabama which will be responsible for the four-year institutions. The grants range from \$1m to \$3m and are highly competitive. Colleges getting the money are those showing an ability to educate students for employment or professional schools, and a desire to revitalize existing curricula to accommodate educationally disadvantaged students.

West Point cadets told to stay behind

The entire second year cadets at West Point, the United States military academy, have been ordered to remain behind and end of the academic year.

More than 1,700 students in 1974/75, just behind West German but well behind Greece and Spain which both supply over 2,000 students a year. Most British students (1,378) are enrolled in arts courses.

The most popular university among overseas students is by far Paris VIII (Vincennes) with nearly 7,000 foreigners, followed by Paris Sorbonne. According to the Office of National Foreign Students, the number of students in first and second cycle studies (first four years) has risen from 1,400 in 1970 to 2,400 in 1974.

Out of a general total of 8.43 per cent of foreign students in arts and humanities subjects only 4.2 per cent obtained the first cycle diploma, 5.1 per cent the licence and 6.9 per cent the maîtrise.

Figures also show that results at this level are decidedly poorer in Paris. Although 45 per cent of students studying science are enrolled in Paris the number of successful graduates in the Paris science faculties was only 18 per cent for the licence and 25 per cent for the maîtrise.

Success rates among research students, however, show a very different picture. Foreign students account for 32.3 per cent of third-cycle doctorates awarded in the arts and humanities and 15.5 per cent of doctorates in science. At this level researchers in Paris appear to enjoy a greater chance of success than those studying in the provinces.

Government policy in recent years has been to encourage the influx of students from abroad for cultural and commercial reasons. In particular foreign students enjoy the same enrolment fees as French students (roughly £20 a year) and are entitled to the same facilities including cheap meals, accommodation, travel and social security.

Efforts are now being made to allow more foreign students into the graduate schools, where the percentage is estimated to be around 6 per cent.

Last year a system of pre-registration was introduced whereby prospective students from abroad were required to make applications to the universities of their choice before May 1. So far this system has not been used to reduce the number of students enrolling, although universities do theoretically have the right to refuse applications.

France

Foreign student numbers continue to increase

from George Morgan

NICE The number of foreign students engaged in higher education in France continues to rise. In 1974/75 some 75,000 students enrolled for degree courses at university, an increase of 13.5 per cent over the preceding year. Taking into consideration the students registered at the grandes écoles or following specially designed language and civilization courses at universities the total number of foreign students in higher education was around 90,000.

These figures, published by the Office National des Universités et Ecoles Françaises, show that foreign students occupy an increasing percentage of French university places. Between 1973 and 1975 the proportion went up from 7.7 per cent to 9.94 per cent. This year there are an estimated 85,000 students from abroad out of a total university population of 811,000.

Forty-five per cent of the foreign students come from the former French colonies in Africa. Belgium ranks twelfth with 1,705 students in 1974/75, just behind West Germany but well behind Greece and Spain which both supply over 2,000 students a year. Most British students (1,378) are enrolled in arts courses.

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Council of Europe

Researchers need 'more job chances'

from George Morgan

BRASILIA Universities and research institutes in most Western countries may lose a generation of teachers and researchers during the next 15 years unless steps are taken to create more higher education job opportunities for current and future post-graduates, according to two reports recently published by the Council of Europe.

Prepared for a meeting of the council's committee for higher education and research at Linköping, Sweden, the reports say a potential generation gap between the large number of staff recruited in the 1960s and those needed to replace them is likely to be created due to recent cutbacks in public spending curtailing the universities' previous growth rate.

Of all European countries surveyed in the reports only Finland expects continued growth in staff due to the Government's aim to raise research expenditure from 1 per cent in 1975 to 1.7 per cent of the gross national product within the next five years.

Apart from the effects on promotions and recruitment, the authors argue that the reduction in the availability of posts with tenure may affect mobility of scientific researchers between institutions and more especially between the universities and research institutes and industrial research laboratories.

Possible solutions to the impending crisis suggested in the reports include greater opportunities for leave of absence and academic exchange, strengthening the universities' links with commercial research, filling staff vacancies immediately, and either lowering or making more flexible the retirement age.

The Appeal of the Research Population, reports by Gert Elstermann and Hans Skala, Council of Europe, Strasbourg.

Brazil

Graduate drive may suffer from lack of quality

from Fay Haussman

BRASILIA Ministry of Education projections show that 40,600 new lecturers will be needed for undergraduate education by 1979. Part of the massive cadre of university staff will have to upgrade their qualifications through master's and doctoral studies. Further, and aside from increasing labour market demands for top-notch professionals, there is a growing need for researchers in scientific centres.

The recently approved First National Postgraduate Education Plan will attempt to cope with these demands, so far as realistically possible. In the words of Dr Edison Machado, director of the Ministry's Department for University Affairs, the plan's three main goals are "to institutionalize postgraduate education, to raise its performance patterns and to channel and orient its growth".

The plan foresees 16,800 new masters and 1,400 doctorates by 1979, and the granting of 1,400 additional degrees to students who at present pursue postgraduate studies abroad. Places for studies towards master's degrees will be expanded from 7,000 to 10,700, and in doctoral studies from 500 to 1,200.

Funds set aside for the plan total Cr\$10.3 billion (€548m). The 50 universities (25 federal, 10 state and municipal, 15 private) with postgraduate courses are thus, for the first time, assured of a regular flow of monies to help them to be satisfied with intermittent grants intended for specific projects.

Professor Carlos Langoni, director of the Postgraduate School of Economics of the Getulio Vargas Foundation in Rio de Janeiro, sees the infusion of these funds into postgraduate education as "a revolution of the Brazilian university structure".

It will enable the transformation of an "academic university" into a full-time university with its own research organization.

Other educators fear the over-expansion of a basically weak structure. In its analysis of the state of Brazil's universities, the plan points towards the relative inefficiency of the courses for master's and doctoral studies. "The majority of can-

dicates admitted does not even manage to complete the credits and, particularly in master's studies, only about 15 per cent complete the degree. Minimum periods of time to obtain the degrees have been about two-and-a-half years for masters, and an additional four years for doctors."

There is general concern over the shortage of qualified persons, both students and lecturers. Candidates for university admission have been found to be less and less able to speak, let alone write, correct Portuguese. But a campaign headed by São Paulo professors, to make a "certificando português" once more compulsory, nationwide, for admission to undergraduate courses has so far failed to change existing legislation.

It is thus not surprising that postgraduate education, too, should have its share of academic illiterates. Postgraduate students in Rio's Federal University and Pontifical Catholic University are reportedly having enormous difficulty in writing their theses. The students themselves admit that they have difficulties in translating their ideas into words.

The critical lack of top-notch academics qualified to train new cadres is seen by most experts as the crux of the problem. At last year's meeting of the Brazilian Society for the Progress of Science the remedy suggested was to contract professors from abroad.

Brazil's most notable experience with foreign professors goes back to the creation of the University of São Paulo more than 40 years ago. Among the young professors brought over from Europe to start the university's Faculty of Philosophy, for example, were Claude Lévi-Strauss, Edgar Morin and Francisco Piccolo who later became scientists of world renown.

They succeeded in training Brazil's first groups of researchers and professors and, contrary to the criticism voiced by their detractors, they concentrated their research on Brazilian questions.

The systematic hiring of foreigners to teach Brazilian postgraduate courses is not unattractively political, however, even as a temporary measure, and has found no support at the Ministry of Education.

Sweden

Student union votes to finish compulsory membership

from Mike Duckenfield

STOCKHOLM The investigation of a possible three-term system and the introduction of an intermediate qualification between the bachelor degree and a doctorate were among the demands made by the Swedish National Union of Students (SFS) at this year's annual conference.

Students also voted to accept the ending of compulsory student union membership as proposed by a recent government committee (THES, March 26), despite fears voiced by the union's president Anika Sandström that they might lose as many as two-thirds of their present 100,000 members.

However, delegates wanted to keep existing arrangements whereby the union receives 16 Skr (£2) from each student every term until an alternative scheme can be worked out to ensure the union's financial future.

Compulsory membership is expected to end with the introduction of the reformed higher education system at the beginning of July next year.

Arguments in favour of the three-term system, which the union was investigated by the Education Ministry, included increased oppor-

tunities to gain work experience by using the third term for practical work and a more efficient use of university and college resources by spreading teaching over a longer period.

Delegates felt that an intermediate qualification would help those who, after graduating and spending some time in work, needed to improve their subject knowledge without committing themselves to an expensive and lengthy doctoral studies.

The conference also adopted a tough eight-point statement on the forthcoming reforms. The union wants to give students, teachers and other education personnel a majority on the six regional boards coordinating the future higher education system.

SFS also wants it to be possible for small professional colleges, such as those for social workers, to stay out of the new regional organizations if they fear being swamped by the larger institutions. Other points included the abandonment of restricted entries, postponing the reforms for at least a year and guaranteeing that minority specialist subjects will not suffer in the new vocationally-oriented division of courses.

Teheran in 1980

The next quinquennial general conference of the International Association of Universities is to be held in Teheran in 1980. No theme for the meeting has yet been fixed. The last IAU conference was in Moscow last August.

Sex law scrapped

The Norwegian Government's Bill on equality between the sexes (THES, October 10, 1975 and March 26) has been rejected by 48 votes to 37 in the Odelsting, the body responsible for the initial vetting of legislation in Parliament. It will now be reconsidered by the Government.

Italy

'Minorities' launch college plan

from Patricia Clough

ROME Representatives of Italy's bigger linguistic minorities have agreed to found a "university of the minorities" with the aim of saving their languages and cultures from extinction.

Only the large German population in the Alto Adige (South Tyrol) and, to a lesser extent, the French speakers of the Val d'Aosta have any official recognition of their languages.

The others, the Sards, whose dialect is regarded by many as a language in its own right, the Provençal groups in Piedmont, the German-speaking Cimbri and Romance-speaking Ladini in remote Alpine valleys, the Slovenes in the Eastern Marches and the Albanian groups in the south have become known as the "lingue minores" because of their unconscious rejection by and isolation from modern culture.

The decision to found a "university of the minorities" was made during a recent meeting of Sards, Slovenes and Val d'Aosta in Milan.

Although they call it a university it will take the form of postgraduate courses in Milan from October to May each year and occasionally also in the homelands of each linguistic group.

Studies will centre on history, art, culture and traditions of the various groups and relative jurisprudence. The lecturers will be university professors, journalists, writers and other specialists in each particular culture.

The Slovenes are also calling for laws giving linguistic minorities legal status and protection, the creation of more Slovene schools in their area and a Slovene-language television programme.

Australia

First institute for managers faces delay

from John Kirkaldy

SYDNEY Although it is designed to improve the standard of Australian business management, the founding of the Australian Graduate School of Management (AGSM) has not been one of the best examples of forward planning. When the school opens for teaching for the first time next year, there is a strong possibility that the buildings designed for it will not be ready.

Mr Gordon Jackson, newly-appointed director of AGSM, said that building funds will probably not be available until August. The school is suffering from all the Government squeeze on all new university building which has been in operation for over a year.

Despite these difficulties, the school should make an important contribution to tertiary education in Australia. It will be the first management school in the country and will be attached to the University of New South Wales. It will be funded through the Universities Commission.

Three levels of courses will be offered initially: a residential course for middle and senior executives of up to 10 weeks; a Master's degree requiring two years' study and a doctorate aimed at high level teaching and research. John Stringer, professor of management at the new school, also wants to incorporate part-time courses for small businessmen.

A 14-member board has just been announced. The board includes four members from the University of NSW, including Professor Rupert Myers, the vice-chancellor.

As this board has no control over the building programme, its main concern at the moment is the recruitment of staff and course arrangements.

Cable TV for Mexico

Mexico has begun building a cable television education network. It is planned to link up with the cable systems which now operate in 60 urban centres of the country.

مركز الأصل

NOTICE BOARD

Chairs

Mr N. Horton Smith, reader in German literature and acting head of department at the University of Nottingham, has been promoted to the chair of German at the university.

Dr R. D. Chambers, reader in organic chemistry, University of Durham, has been promoted to the chair of chemistry at the university.

Appointments

Universities

Belfast

Lecturers: J. H. Fairlie (social work); W. Montell (electrical and electronic engineering); D. R. Sear (architecture); K. F. Wainwright (inorganic chemistry). Senior library assistant: M. D. McKewen.

Durham

Pro-vice-chancellor and sub-warden: Professor W. K. R. Musgrave (recreation). Lecturers: C. J. R. Gullick (anthropology); A. G. Dammell (economics); A. Unsworth (engineering science); E. Marsh (law); P. H. Kneen (politics); R. Manning (zoology); I. H. Roberts, J. B. McNeill (biology). Staff tutor: J. B. McNeill (biology). Tutor: M. Sawbridge (community and youth work). Reader: Dr A. D. Martin (physics).

Liverpool

Promotions to reader: R. J. Abraham (chemistry); D. Bethell, J. S. E. Holker (organic chemistry); R. Chester (oceanography). Promotions to senior lecturer: A. R. Millard (oriental studies); D. Jones (biochemistry); D. A. Thurman (biology); T. L. Gifford (organic chemistry).

Recent publications

Teacher Policies (published by the OECD, available from HMSO bookshops, £2.70). The report examines the changing role of the teacher and its implications in terms of training, status and complementary resources.

Mr H. P. Williams, lecturer in operational research at the University of Sussex, has been appointed to the newly founded chair of management science at the University of Edinburgh.

Dr G. P. Blair, reader in mechanical engineering, University of Belfast, has been appointed to the second chair of mechanical engineering at the university.

Dr D. Molyneux, lecturer in the department of parasitology, University of Liverpool, has been appointed to a chair in biology at the University of Salford.

chemistry); J. A. Bishop (genetics); R. G. Hartnell (marine biology); G. A. Parker (zoology); R. G. Conolly (anatomy); A. G. Cudworth (medicine); P. H. Smith (pathology); T. M. Wright (bio-engineering and medical physics); R. J. Cope, B. Tenenbaum (civil engineering); J. Lucas (electrical engineering and electronics); V. S. Walton (mechanical engineering); J. R. Walton (veterinary preventive medicine); I. D. Aitken (avian medicine); B. J. Anderson (economic history); A. D. Davies (psychology).

Colleges

Southlands College

Principal: D. Milbank.

Vauxhall College of Building

Principal: B. Smith, at present vice-principal at Watlington Forest College, North London.

General

Inner London Education Authority: Chairman: Mrs. A. Grieves, formerly vice-chairman of the ILA, Vice-Chairman: Mrs. L. Campbell, Chairman: ILA's advisory section on special education.

Technical Education Council: Chairman: Mr N. Raine (part-time) governor of Lancaster Polytechnic.

A Guide to the Identification of Training Needs, by Tom Boycott (published by NFER, 16 Park Crescent, London W1; £12.00 members; £24.00 non-members). This revised edition includes a new chapter on the identification of needs which reflects how the author's recent experiences have developed the approach. He originally developed the approach in his work on the identification of needs in the field of training and development. The book is written for those who are responsible for training and development in industry and commerce. It is written in a clear and concise style and includes many examples and illustrations to illustrate the text throughout.

Open University programmes June 12 to 18

Saturday June 12

7.00-8.00 Mathematics Foundation Course: Algebraic Equations (A1001) (progs 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 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Back and forth in time

Folk literature

THE REVELS PLAYS General editor **F. D. Hoeniger**
 Manchester University Press have acquired from
 Methuen and Co Ltd the complete stock and future
 publishing rights in The Revels Plays. This
 long-established series of 16th, 17th and 18th century
 play texts; edited to the highest academic standards by
 scholars of international repute, now numbers some 21
 volumes and includes an Open University and several
 undergraduate set texts. Among titles planned for
 publication within the next year are **THE JEW OF MALTA;**
THE SHOEMAKER'S HOLIDAY, ANTONIO'S REVENGE,
THE FAWN, and THE SECOND MAIDEN'S TRAGEDY.
Complete stock list available on application.

THE BATTLE OF MALDON Edited by **E. V. Gordon**
 Published originally in 1937, E. V. Gordon's edition is still
 the only separate text with complete annotations and
 glossary. It has now been taken over by Manchester for
 inclusion in the Old and Middle English Texts series.
 D. G. Scragg has produced an eight-page addendum
 reviewing the main developments in critical opinion of
 the poem since 1937, with a supplementary bibliography.
August, paper about £1.25

MANCHESTER UNIVERSITY PRESS
 Oxford Road, Manchester M13 9PL

Universities continued

NATIONAL INSTITUTE FOR HIGHER EDUCATION,
LIMERICK, IRELAND

The first phase of development within recently constructed facilities on the 120-acre site is now under way and staff are being recruited to develop and implement a variety of programmes ranging from specialist short courses to degree and post-graduate.

PRODUCTION ENGINEERING

LECTURER/ASSISTANT LECTURER (2 POSTS)
Persons appointed will be concerned with the development and implementation of programmes in the areas of production mechanical and manufacturing engineering.

Experience in one or more of the following fields is desirable: Engineering Workshop Technology, N.C. Technology, Machining Processes, Mechanics of Machines, Thermodynamics, and Fluid Mechanics.

INDUSTRIAL ENGINEERING

(OPERATIONS MANAGEMENT)

LECTURER/ASSISTANT LECTURER
This person appointed will participate in the operation and development of the Degree and Diploma programmes in Industrial Engineering.

Experience is essential in one or more of the areas of work study, ergonomics and quality control. A broad knowledge of the subject area of production planning and control is expected, whilst experience with modern quantitative techniques will be an advantage.

ELECTRONIC ENGINEERING

LECTURER (2 POSTS)

The Electronic Engineering Department, emerging from its pilot phase, is currently preparing to contribute to the operation and development of Degree and Diploma programmes in Electronic Engineering and various allied courses.

These appointments will be capable of teaching to final year degree level in several subjects and in addition will have specialist expertise in one of the following areas:
Digital Communications, Acoustics, Device Physics, Control, Process Instrumentation.

MARKETING

LECTURER

Marketing is a principal option in Diploma and Degree programmes. The person appointed will work in a wide range of teaching, projects and research tasks, with a multidisciplinary Business Studies team. The appointee will be encouraged to establish contacts and liaise with industry.

Candidates should have relevant academic qualifications to at least the level of primary degree, combined with practical marketing experience. Special interests and abilities in areas such as the Irish economy—such as agriculture, tourism and international marketing—are particularly welcome.

SALARY: LECTURER—£23,742-£28,682.
ASSISTANT LECTURER—£17,822-£22,444.
Additional annual allowances of £100 marriage and £70 per child (under 16) and other benefits.

Application material available from the Personnel Office, National Institute for Higher Education, Limerick, Ireland, to be completed and returned by Friday, 10th July, 1976.

CO. WESTMEATH VOCATIONAL EDUCATION

ATHLONE REGIONAL TECHNICAL COLLEGE

LECTURER SCALE 1 REQUIRED

Applications are invited for the following permanent whole-time pensionable post:

LECTURER SCALE 1—PLASTICS

ENGINEERING

OR PLASTICS TECHNOLOGY

(Preferably with experience of the main plastic industry processes) Athlone College is one of the Regional Technical Colleges recently established in Ireland and is one of the main centres for technical and technological education in the Eastern Region. The College offers a range of programmes including one leading to Graduate Certificate and another leading to the Engineering Certificate.

Salary Scale:
Women and single men £24,111-£28,682
Children's allowances are payable where applicable.

The number of increments which may be awarded for previous suitable experience is normally a maximum of five.

Qualifications and Conditions of Service in accordance with Memo. V.7 of the Department of Education.

Application forms and further information may be obtained from:
Michael Geoghegan, National Manpower Service, Commerce Place, Athlone, Co. Westmeath, Ireland. (Tel. 0902/9404.)

AUSTRALIA

UNIVERSITY OF WESTERN AUSTRALIA

LECTURER IN COMMERCE

Members of the Department of Commerce are invited to apply for the post of Lecturer in Commerce. The successful candidate will be responsible for the teaching of Commerce to students in the Faculty of Commerce.

Applicants should have a minimum of three years' experience in the teaching of Commerce at the university level. They should also have a minimum of five years' experience in the teaching of Commerce at the secondary level.

Applicants should send their curriculum vitae, together with three references, to the Registrar, University of Western Australia, Perth, Western Australia, 6001.

Further particulars may be obtained from the Registrar, University of Western Australia, Perth, Western Australia, 6001.

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STATE UNIVERSITY
OF UTRICHT
Faculty of
Mathematics and
Natural SciencePROFESSOR OF
MOLECULAR BIOPHYSICS

Applications are invited for the post of Professor of Molecular Biophysics which falls vacant on September 1, 1977. Investigations in the field of molecular biophysics are carried out in the subfields of Physics and Astronomy within the Departments of Spectroscopic Biology (which specializes in photosynthesis) and Molecular Biophysics. Both Departments are housed in the Laboratory of Experimental Physics.

In addition to teaching duties, for which the English language may be used, the appointee is expected to conduct and supervise research.

Preference will be given to a physicist with proven ability to pursue high quality research in the field of molecular biophysics and will be expected to actively participate in interdisciplinary investigations with colleagues in the subfields of Biology and Chemistry.

Knowledge of the Dutch language is not a prerequisite, but it is expected that after a few years teaching will be in Dutch.

Applications, which should include a detailed curriculum vitae, list of publications and names of referees, should be sent within four weeks of the appearance of this advertisement to the secretary of the Selection Committee, A. van Nieuwpoort, Esq., Sorbonnelaan 4, Utrecht.

The Committee is willing to hear in confidence names of possible candidates who might be invited to apply.

Further information may be obtained from the Chairman of the Selection Committee, Prof. Dr. M. A. Bouman, Laboratorium voor Experimentele Fysica, Sorbonnelaan 4, Utrecht. (Tel. 030-532808, 531983.)

UNIVERSITY
OF YORKDEPARTMENT OF ENGLISH AND
RELATED LITERATURE

TWO

LECTURESIPS

Applications are invited for the above posts vacant from October, 1976. From those who, in addition to English literature, have qualifications in European or American literature.

Salary scales:
£23,742-£28,682, with UBS.

Six copies of application (see from overseas candidates) naming three referees, should be sent by 25 June, 1976, to the Registrar, University of York, Heslington, York, YO1 5DD, from whom further particulars may be obtained. Please quote reference number 6/2176.

Applications are invited for the post of LECTURER in the University's Department of English and Related Literature to undertake duties primarily concerned with the teaching of English literature in the Department of English and Related Literature.

Information should be sent to the Registrar, University of York, Heslington, York, YO1 5DD, from whom further particulars may be obtained. Please quote reference number 6/2176.

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THE UNIVERSITY OF
THE SOUTH PACIFIC—FIJIApplications are invited for the
following posts:

READER/SENIOR

LECTURER IN

EDUCATION (Post 76/34)

Two positions are available, one as Reader and the other as Senior Lecturer in Education. The successful candidates will be expected to conduct and supervise research.

Preference will be given to a physicist with proven ability to pursue high quality research in the field of molecular biophysics and will be expected to actively participate in interdisciplinary investigations with colleagues in the subfields of Biology and Chemistry.

Knowledge of the Dutch language is not a prerequisite, but it is expected that after a few years teaching will be in Dutch.

Applications, which should include a detailed curriculum vitae, list of publications and names of referees, should be sent within four weeks of the appearance of this advertisement to the secretary of the Selection Committee, A. van Nieuwpoort, Esq., Sorbonnelaan 4, Utrecht.

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THE UNIVERSITY OF
THE SOUTH PACIFIC—FIJIApplications are invited for the
following posts:

READER/SENIOR

LECTURER IN

EDUCATION (Post 76/34)

Two positions are available, one as Reader and the other as Senior Lecturer in Education. The successful candidates will be expected to conduct and supervise research.

Preference will be given to a physicist with proven ability to pursue high quality research in the field of molecular biophysics and will be expected to actively participate in interdisciplinary investigations with colleagues in the subfields of Biology and Chemistry.

Knowledge of the Dutch language is not a prerequisite, but it is expected that after a few years teaching will be in Dutch.

Applications, which should include a detailed curriculum vitae, list of publications and names of referees, should be sent within four weeks of the appearance of this advertisement to the secretary of the Selection Committee, A. van Nieuwpoort, Esq., Sorbonnelaan 4, Utrecht.

The Committee is willing to hear in confidence names of possible candidates who might be invited to apply.

Further information may be obtained from the Chairman of the Selection Committee, Prof. Dr. M. A. Bouman, Laboratorium voor Experimentele Fysica, Sorbonnelaan 4, Utrecht. (Tel. 030-532808, 531983.)

Applications are invited for the post of LECTURER in the University's Department of English and Related Literature to undertake duties primarily concerned with the teaching of English literature in the Department of English and Related Literature.

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THE TIMES HIGHER EDUCATION SUPPLEMENT 11.6.76

Universities
continued

AUSTRALIA

Applications are invited for the post of LECTURER in the University's Department of English and Related Literature to undertake duties primarily concerned with the teaching of English literature in the Department of English and Related Literature.

Information should be sent to

Universities continued

NOTTINGHAM THE UNIVERSITY

DEPARTMENT OF MECHANICAL ENGINEERING

Applications are invited for a Lecturer in Mechanical Engineering. The successful candidate will be responsible for the teaching of mechanical engineering to students in the Department of Mechanical Engineering. The successful candidate should have a PhD in Mechanical Engineering and a minimum of five years' experience in the field of mechanical engineering. The salary scale for Lecturers is £14,794 to £24,794.

Application forms and further particulars may be obtained from the Director of Staffing, Nottingham University, Nottingham, Notts. Closing date: 30th June, 1976.

OXFORD THE UNIVERSITY

APPLIED SOCIAL STUDIES

For three years from 1 October 1976, the Department of Applied Social Studies will be merged with the Department of Social Studies. The successful candidate will be responsible for the teaching of applied social studies to students in the Department of Applied Social Studies. The successful candidate should have a PhD in Applied Social Studies and a minimum of five years' experience in the field of applied social studies. The salary scale for Lecturers is £14,794 to £24,794.

Application forms and further particulars may be obtained from the Director of Staffing, Oxford University, Oxford, OX1 2JD. Closing date: 30th June, 1976.

OXFORD THE UNIVERSITY

RESEARCH ASSISTANT IN MATHEMATICS

The University is seeking a Research Assistant in Mathematics. The successful candidate will be responsible for the research of mathematics. The successful candidate should have a PhD in Mathematics and a minimum of five years' experience in the field of mathematics. The salary scale for Research Assistants is £5,752 to £11,752.

Application forms and further particulars may be obtained from the Director of Staffing, Oxford University, Oxford, OX1 2JD. Closing date: 30th June, 1976.

SALFORD THE UNIVERSITY

DEPARTMENT OF MATHEMATICS

Applications are invited for a Lecturer in Mathematics. The successful candidate will be responsible for the teaching of mathematics to students in the Department of Mathematics. The successful candidate should have a PhD in Mathematics and a minimum of five years' experience in the field of mathematics. The salary scale for Lecturers is £14,794 to £24,794.

Application forms and further particulars may be obtained from the Director of Staffing, Salford University, Salford, Greater Manchester. Closing date: 30th June, 1976.

ST. ANDREW'S THE UNIVERSITY

DEPARTMENT OF ZOOLOGY

Applications are invited for a Lecturer in Zoology. The successful candidate will be responsible for the teaching of zoology to students in the Department of Zoology. The successful candidate should have a PhD in Zoology and a minimum of five years' experience in the field of zoology. The salary scale for Lecturers is £14,794 to £24,794.

Application forms and further particulars may be obtained from the Director of Staffing, St. Andrew's University, St. Andrew's, Fife. Closing date: 30th June, 1976.

SHEFFIELD THE UNIVERSITY

RESEARCH ASSISTANT IN MEDICAL GENETICS

The University is seeking a Research Assistant in Medical Genetics. The successful candidate will be responsible for the research of medical genetics. The successful candidate should have a PhD in Medical Genetics and a minimum of five years' experience in the field of medical genetics. The salary scale for Research Assistants is £5,752 to £11,752.

Application forms and further particulars may be obtained from the Director of Staffing, Sheffield University, Sheffield, S10 2TN. Closing date: 30th June, 1976.

SHEFFIELD THE UNIVERSITY

LECTURER IN VIBROLOGY

Applications are invited from suitably qualified men and women for the post of Lecturer in Vibrology. The successful candidate will be responsible for the teaching of vibrology to students in the Department of Vibrology. The successful candidate should have a PhD in Vibrology and a minimum of five years' experience in the field of vibrology. The salary scale for Lecturers is £14,794 to £24,794.

Application forms and further particulars may be obtained from the Director of Staffing, Sheffield University, Sheffield, S10 2TN. Closing date: 30th June, 1976.

SHEFFIELD THE UNIVERSITY

DEPARTMENT OF CERAMICS

Applications are invited from suitably qualified men and women for the post of Lecturer in Ceramics. The successful candidate will be responsible for the teaching of ceramics to students in the Department of Ceramics. The successful candidate should have a PhD in Ceramics and a minimum of five years' experience in the field of ceramics. The salary scale for Lecturers is £14,794 to £24,794.

Application forms and further particulars may be obtained from the Director of Staffing, Sheffield University, Sheffield, S10 2TN. Closing date: 30th June, 1976.

OXFORD THE UNIVERSITY

LECTURER IN SOCIAL AND POLITICAL SCIENCE

Applications are invited from suitably qualified men and women for the post of Lecturer in Social and Political Science. The successful candidate will be responsible for the teaching of social and political science to students in the Department of Social and Political Science. The successful candidate should have a PhD in Social and Political Science and a minimum of five years' experience in the field of social and political science. The salary scale for Lecturers is £14,794 to £24,794.

Application forms and further particulars may be obtained from the Director of Staffing, Oxford University, Oxford, OX1 2JD. Closing date: 30th June, 1976.

SHEFFIELD THE UNIVERSITY

DEPARTMENT OF PHYSICS

Applications are invited from suitably qualified men and women for the post of Lecturer in Physics. The successful candidate will be responsible for the teaching of physics to students in the Department of Physics. The successful candidate should have a PhD in Physics and a minimum of five years' experience in the field of physics. The salary scale for Lecturers is £14,794 to £24,794.

Application forms and further particulars may be obtained from the Director of Staffing, Sheffield University, Sheffield, S10 2TN. Closing date: 30th June, 1976.

SOUTHAMPTON THE UNIVERSITY

DEPARTMENT OF MATHEMATICS

Applications are invited from suitably qualified men and women for the post of Lecturer in Mathematics. The successful candidate will be responsible for the teaching of mathematics to students in the Department of Mathematics. The successful candidate should have a PhD in Mathematics and a minimum of five years' experience in the field of mathematics. The salary scale for Lecturers is £14,794 to £24,794.

Application forms and further particulars may be obtained from the Director of Staffing, Southampton University, Southampton, Hampshire. Closing date: 30th June, 1976.

STRATHCLYDE THE UNIVERSITY

LECTURER IN PHYSICS

Applications are invited from suitably qualified men and women for the post of Lecturer in Physics. The successful candidate will be responsible for the teaching of physics to students in the Department of Physics. The successful candidate should have a PhD in Physics and a minimum of five years' experience in the field of physics. The salary scale for Lecturers is £14,794 to £24,794.

Application forms and further particulars may be obtained from the Director of Staffing, Strathclyde University, Glasgow, Scotland. Closing date: 30th June, 1976.

SURREY THE UNIVERSITY

DEPARTMENT OF POLICY AND PLANNING

Applications are invited from suitably qualified men and women for the post of Lecturer in Policy and Planning. The successful candidate will be responsible for the teaching of policy and planning to students in the Department of Policy and Planning. The successful candidate should have a PhD in Policy and Planning and a minimum of five years' experience in the field of policy and planning. The salary scale for Lecturers is £14,794 to £24,794.

Application forms and further particulars may be obtained from the Director of Staffing, Surrey University, Surrey, Surrey. Closing date: 30th June, 1976.

WESTERN AUSTRALIA THE UNIVERSITY

COMPUTER SCIENCE

Applications are invited from suitably qualified men and women for the post of Lecturer in Computer Science. The successful candidate will be responsible for the teaching of computer science to students in the Department of Computer Science. The successful candidate should have a PhD in Computer Science and a minimum of five years' experience in the field of computer science. The salary scale for Lecturers is £14,794 to £24,794.

Application forms and further particulars may be obtained from the Director of Staffing, Western Australia University, Perth, Western Australia. Closing date: 30th June, 1976.

WESTERN AUSTRALIA THE UNIVERSITY

LECTURER IN PHYSIOLOGY

Applications are invited from suitably qualified men and women for the post of Lecturer in Physiology. The successful candidate will be responsible for the teaching of physiology to students in the Department of Physiology. The successful candidate should have a PhD in Physiology and a minimum of five years' experience in the field of physiology. The salary scale for Lecturers is £14,794 to £24,794.

Application forms and further particulars may be obtained from the Director of Staffing, Western Australia University, Perth, Western Australia. Closing date: 30th June, 1976.

WEST SUSSEX THE UNIVERSITY

LECTURER IN PHYSIOLOGY

Applications are invited from suitably qualified men and women for the post of Lecturer in Physiology. The successful candidate will be responsible for the teaching of physiology to students in the Department of Physiology. The successful candidate should have a PhD in Physiology and a minimum of five years' experience in the field of physiology. The salary scale for Lecturers is £14,794 to £24,794.

Application forms and further particulars may be obtained from the Director of Staffing, West Sussex University, Brighton, Sussex. Closing date: 30th June, 1976.

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WALES THE UNIVERSITY

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Application forms and further particulars may be obtained from the Director of Staffing, Wales University, Cardiff, Wales. Closing date: 30th June, 1976.

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THE TIMES HIGHER EDUCATION SUPPLEMENT 11.6.76

UNIVERSITY OF EAST ANGLIA

CENTRE FOR APPLIED RESEARCH IN EDUCATION

SSRC STUDENTSHIPS

Applications are invited from students for SSRC Studentships. The successful candidate will be responsible for the research of education. The successful candidate should have a PhD in Education and a minimum of five years' experience in the field of education. The salary scale for Studentships is £5,752 to £11,752.

Application forms and further particulars may be obtained from the Director of Staffing, University of East Anglia, Norwich, Norfolk. Closing date: 30th June, 1976.

UNIVERSITY OF EAST ANGLIA

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Polytechnics continued

STRATHCLYDE REGIONAL COUNCIL: DEPARTMENT OF EDUCATION

FURTHER EDUCATION

Applications are invited for the undemanding Lecturing posts. All candidates should have relevant industrial or commercial experience where appropriate. Teacher training would be an advantage but training will be given on an in-service basis if necessary.

Glasgow College of Building & Printing, 60 North Hanover Street, Glasgow G1 2BP

Building Management and Administration Sen. Lect. 'A' Degree and suitable professional qualification and experience.

Glasgow College of Technology, North Hanover Place, Glasgow G4 0BA

Biochemistry/Clinical Lect. 'A' Honours degree in biochemistry plus post-graduate experience in Clinical Chemistry.

SALARIES. The promoted post structure in FE Colleges is presently under review.

SENIOR LECTURER 'A' £23,127-£27,047 (Bar) £28,028

SENIOR LECTURER (Presently SL1 Scale) £23,628-£25,882

LECTURER 'A' £23,628-£25,882 (Bar) £28,027

Placing on salary scales will be given for relevant experience. Further details and application forms may be obtained from and should be returned to the College concerned by Wednesday, June 23, 1976.

EDWARD MILLER, Director of Education.

LANCHESTER POLYTECHNIC

Covertry - Rugby

Applications are invited for the following posts:

Faculty of Applied Science

Temporary Lecturer Grade II (One year duration)

STATISTICS

Faculty of Social Science

Temporary Lecturer Grade II (One year duration)

MODERN GERMAN STUDIES

Temporary Lecturer Grade II (One year duration)

RUSSIAN

Temporary Lecturer Grade II (One year duration)

LAW

Salary Scale: within the scale £23,729-£25,493 plus £312 supplement per annum.

In certain circumstances the salary may be above the minimum of the scale. For application form and further particulars please apply in writing enclosing a stamped and addressed envelope to the Assistant Secretary (Personnel), Lanchester Polytechnic, Priory Street, Coventry CV1 5PB, returnable by 25th June, 1976.

Environmental Sciences

(2 posts)

Structural and Physiology of Fish Receptors

Cretaceous Micropalaeontology

Maritime Studies

Tidal Streams in the English Channel

Mathematical Rheology

All of the posts demand high academic qualifications and where appropriate some industrial experience. Research Assistants are normally required to register for higher degree, although post-doctoral applicants can be considered.

Appointments are for a period of two years with the possibility of a third year of annual increments. An additional £312 p.a. supplement is also payable. Research Assistants undertake 6 hours teaching weekly. Send for further details and application form to Personnel Officer.

Closing date for applications will be 30th June, 1976.

Research Studentship

The Science Research Council is prepared to offer a research studentship for a period of three years from September, 1976, at Middlesex Polytechnic.

Opportunities for research are available in these areas:

- control engineering
- heat transfer
- materials science
- mathematics
- physics
- solid mechanics
- transportation planning (traffic engineering)

Applications are invited from UK or Commonwealth citizens resident in Great Britain, under 27 years of age and holding an appropriate university or first-class honours degree from a British university.

Write, giving full details of qualifications, experience and research interests, to: Mrs. Janet Potts, Assistant Secretary, Middlesex Polytechnic, Hendon, Middx., HA5 2UH. Closing date: 25th June, 1976. Interviews will take place in July.

Middlesex Polytechnic

Further particulars and application forms may be obtained by writing to the Head of Department of Management and Social Sciences, Oxford: Polytechnic, Oxford OX3 0BP.

THE POLYTECHNIC

HUDDERSFIELD

Department of Business Studies

SENIOR LECTURER/LECTURER II, LAW. Ref. ACA/86. Applications are invited for a Senior Lecturer in Law or Lecturer in Law and/or a professional qualification. A higher degree or evidence of research would be an additional qualification. Lecturing duties will be for the B.A. (Hons.) Business Studies, HND Business Studies and professional courses. An interest in work with industrial placement for sandwich course students will be a strong recommendation.

Department of Education

PRINCIPAL LECTURER/SENIOR LECTURER/LECTURER II, PSYCHOLOGY AND EDUCATION. Ref. ACA/87. Applications are invited from graduates in Psychology for appointment in the Department of Education. Candidates should have substantial experience in schools and/or teacher education and should be able to contribute to teaching programmes at Honours and Postgraduate levels. Recent research experience and the ability to supervise research for Masters Degrees and Doctorates will be expected.

Department of English Studies

SENIOR LECTURER/LECTURER II, PHILOSOPHY. Ref. ACA/88. Applications are invited for an appointment in Philosophy. The candidates should have a good honours degree in Philosophy with special qualifications and/or research interests in the history of Modern Philosophy, especially Kant or in logic and should be able to contribute to teaching programmes in the B.A. Humanities degree and possibly to other courses in the Polytechnic.

Department of Engineering Systems

RESEARCH ASSISTANTS, SYSTEM MODELLING AND IDENTIFICATION. Ref. ACA/89. Applications are invited for the posts of Research Assistant in the Department of Engineering Systems and Control to pursue work on the Dynamic Behaviour of an Open Hydraulic Force-Motion System and on the Applications of Algorithms for Orthogonal Transformation in Signal Processing respectively. The successful candidates will be expected to have a good degree, or equivalent, in Engineering and to have a knowledge of system modelling and control. The successful candidates will be encouraged to register for a Higher Degree, B.Sc. (Hons.) in Engineering Systems and Control.

Further details and application forms should be returned by June 26, 1976, from the Establishment Office, The Polytechnic, Queensgate, Huddersfield HD1 3DH (Telephone 0484 35601, ext. 307).

Department of Management Studies

RESEARCH ASSISTANTS, MANAGEMENT STUDIES. Ref. ACA/90. Applications are invited for the posts of Research Assistant in the Department of Management Studies and Control to pursue work on the Dynamic Behaviour of an Open Hydraulic Force-Motion System and on the Applications of Algorithms for Orthogonal Transformation in Signal Processing respectively. The successful candidates will be expected to have a good degree, or equivalent, in Engineering and to have a knowledge of system modelling and control. The successful candidates will be encouraged to register for a Higher Degree, B.Sc. (Hons.) in Engineering Systems and Control.

Further details and application forms should be returned by June 26, 1976, from the Establishment Office, The Polytechnic, Queensgate, Huddersfield HD1 3DH (Telephone 0484 35601, ext. 307).

Department of Management Studies

RESEARCH ASSISTANTS, MANAGEMENT STUDIES. Ref. ACA/91. Applications are invited for the posts of Research Assistant in the Department of Management Studies and Control to pursue work on the Dynamic Behaviour of an Open Hydraulic Force-Motion System and on the Applications of Algorithms for Orthogonal Transformation in Signal Processing respectively. The successful candidates will be expected to have a good degree, or equivalent, in Engineering and to have a knowledge of system modelling and control. The successful candidates will be encouraged to register for a Higher Degree, B.Sc. (Hons.) in Engineering Systems and Control.

Further details and application forms should be returned by June 26, 1976, from the Establishment Office, The Polytechnic, Queensgate, Huddersfield HD1 3DH (Telephone 0484 35601, ext. 307).

NEWCASTLE UPON TYNE POLYTECHNIC

Department of Physics and Physical Electronics

RESEARCH ASSISTANT

(£2,752-£3,112)

Required to work in one of the following areas:

Thin Film Physics, Gas Discharge and Plasma Physics or Satellite Communication Systems.

The successful candidate will be expected to register for a higher degree. The Assistantship is initially for a fixed period of two years.

For further particulars and application forms, returnable by 21st June, 1976, please send stamped addressed postcard envelope to Staffing Officer, Newcastle upon Tyne Polytechnic, Ellison Buildings, Ellison Place, Newcastle upon Tyne, NE1 8ST.

DUNDEE COLLEGE OF TECHNOLOGY

Applications are invited for the post of

HEAD OF DEPARTMENT OF MOLECULAR & LIFE SCIENCES

The college is a Scottish Central Institution with a substantial and developing range of courses at degree and diploma level. The Department of Molecular & Life Sciences offers a wide variety of courses including a degree in Nursing, M.Biol., HND in Biology and it has a shared responsibility for a degree in Science. Applicants must have high academic qualifications, appropriate experience in teaching at degree level and relevant industrial and/or research experience, together with a proven record of administrative ability. The salary (at present under review in the light of the Houghton Committee Report) is £8,532.

Further particulars and application form obtainable from the Principal, Dundee College of Technology, Ball Street, Dundee, DD1 1JG, to whom completed application forms should be returned not later than 25th June, 1976.

DUNDEE COLLEGE OF TECHNOLOGY

Polytechnics continued

LOTHIAN REGIONAL COUNCIL

NORTH COLLEGE OF DISTANCE AND TECHNOLOGY
DEPARTMENT OF BIOLOGICAL SCIENCES

HERIOT-WATT UNIVERSITY

Applications are invited for a full-time post in the following fields:
(i) A theoretical and mathematical study of geophysics in animal populations.
(ii) The symbolic anatomy of the human brain.
(iii) Noise pollution.
Applicants who have an undergraduate degree in biology or a related subject will be considered.
For further information and application forms, contact: Dr. J. J. Anderson, Head of Department, North College of Distance and Technology, Heriot-Watt University, Edinburgh EH1 1JY.

LONDON

THE POLYTECHNIC OF NORTH LONDON
TECHNICAL ASSISTANT (Department of Applied Social Studies)

Two posts for one year from September 1978. The successful candidates will be required to work with a variety of students, including those with special needs, and to assist in the development of the department's research and local authorities. For application forms and details, contact: The Principal, The Polytechnic of North London, 100 Tottenham Court Road, London W1P 0LP. Tel: 01-580 5000.

LONDON

CITY OF LONDON POLYTECHNIC
PART-TIME LECTURERS IN GRAPHIC AND TYPOGRAPHIC DESIGN

Required for September 1978. The successful candidates will be required to work with a variety of students, including those with special needs, and to assist in the development of the department's research and local authorities. For application forms and details, contact: The Principal, The Polytechnic of North London, 100 Tottenham Court Road, London W1P 0LP. Tel: 01-580 5000.

LONDON

CITY OF LONDON POLYTECHNIC
PART-TIME LECTURERS IN GRAPHIC AND TYPOGRAPHIC DESIGN

Required for September 1978. The successful candidates will be required to work with a variety of students, including those with special needs, and to assist in the development of the department's research and local authorities. For application forms and details, contact: The Principal, The Polytechnic of North London, 100 Tottenham Court Road, London W1P 0LP. Tel: 01-580 5000.

SUNDERLAND

THE POLYTECHNIC
FACULTY OF HUMANITIES

DEPARTMENT OF GEOGRAPHY AND HISTORY

LECTURER IN GEOGRAPHY
A full-time post in the Department of Geography and History. The successful candidate will be required to work with a variety of students, including those with special needs, and to assist in the development of the department's research and local authorities. For application forms and details, contact: The Principal, The Polytechnic of North London, 100 Tottenham Court Road, London W1P 0LP. Tel: 01-580 5000.

WOLVERHAMPTON

THE POLYTECHNIC
DEPARTMENT OF ACCOUNTING

SENIOR LECTURER IN ACCOUNTING

Applicants must be members of the Chartered Institute of Accountants (CIMA) or the Institute of Cost Accountants (ICAEW). The successful candidate will be required to work with a variety of students, including those with special needs, and to assist in the development of the department's research and local authorities. For application forms and details, contact: The Principal, The Polytechnic of North London, 100 Tottenham Court Road, London W1P 0LP. Tel: 01-580 5000.

Ulster College Northern Ireland Polytechnic

Faculty of Social and Health Sciences

DIRECTOR OF STUDIES - SCHOOL OF SOCIAL STUDIES

£7,707-£8,913

The School has divisions of Sociology, Social Work, Social Administration and Youth and Community Work. It embraces pure and applied studies in a wide range of degrees and diploma, full-time and part-time courses within the School and contributes widely to other Polytechnic courses. Applicants should have high qualifications and a special interest in one or other of these main activities of the School. They should be capable of making a significant contribution to the academic work of the Polytechnic in teaching, research and course development.

PRINCIPAL LECTURER - Sociology

To co-ordinate and develop the teaching of Sociology in a wide range of degree and diploma courses. Applicants should have graduate and post graduate qualifications in Sociology and be experienced teachers of the subject.

Faculty of The Arts

SENIOR LECTURER or LECTURER II - Ceramics

A creative and experimental potter is required to contribute to the B.A. Honours course in Ceramics. Applicants should have a good studio background including fluency in wheel-based forms and a sound knowledge of ceramic technology. Teaching experience at B.A. Honours level would be an advantage and candidates should hold MEdsCA or equivalent qualification.

LECTURER II - History and Theory of Design

Applicants should have a suitable qualification and be able to demonstrate an interest and involvement in Contemporary Design Education and its development. Applicants should have a good studio background including fluency in wheel-based forms and a sound knowledge of ceramic technology. Teaching experience at B.A. Honours level would be an advantage and candidates should hold MEdsCA or equivalent qualification.

Faculty of Technology

LECTURER II - Concrete and Materials Technology

Applicants should be experienced graduates to lecture to degree and technician courses. Interests in research and laboratory developments essential.

SALARY SCALES:
Principal Lecturer, £8,940 to £9,642/£7,578
Senior Lecturer, £5,931 to £6,955/£5,417
Lecturer II, £3,279 to £4,493 plus £312 supplement.

Further particulars and application forms which must be returned by June 28 may be obtained by telephoning Whiteabbey 86131, ext. 2243 or by writing to—

The Establishment Officer, Ulster College, The Northern Ireland Polytechnic, Newtownabbey, Co. Antrim, BT 37 0QB.

EALING Technical College

Specialist Centre for Higher Education

Lecturer in Librarianship

(No advertisement - Previous applicants need not apply) Applications are invited from professionally qualified librarians with extensive experience in Bibliographical Studies or Library Information Services.

Lecturer in Accounting/Finance

Candidates should have high academic qualifications with business experience. The person appointed would be expected to contribute to the development of teaching in at least one of the following areas:
Undergraduate Programmes
Final Professional Work
Post experience Management Courses

Lecturer in Law

Applicants should have a good degree in Law, and preferably a professional qualification. Previous teaching experience an advantage. Appointments will be made at either L1 or L1/L2 level according to qualifications and experience and will date from 1 September 1978 or as soon as possible thereafter.

Ealing EDUCATION SERVICE

Colleges of Further Education

BRADFORD COLLEGE

Applications are invited from suitably qualified and experienced candidates for the following posts:

SCHOOL OF BUSINESS AND SOCIAL STUDIES

SENIOR LECTURER IN ECONOMICS

SCHOOL OF TECHNOLOGY AND DESIGN

SENIOR LECTURER IN OPTICS

SALARY SCALE: Senior Lecturer, £5,343-£8,387 (Bar) £6,778. Further particulars and forms of application may be obtained from The Staffing Officer, Bradford College, Great Horton Road, Bradford BD7 3AT.

Tayside Regional Council

FURTHER EDUCATION

DUNDEE COLLEGE OF COMMERCE, 30 Constitution Road, Dundee DD3 6TB

SENIOR LECTURER 'A' IN MANAGEMENT STUDIES

The successful candidate, who should have considerable teaching and business management experience, would lead a team of Management teachers offering subjects to Higher National Diploma, Higher National Certificate and Professional Institute Courses level.

Application form and full details obtainable from the Principal of the College (address given above) to whom completed forms should be returned by 21st June, quoting reference TH/11.

Overseas

Education Department of Western Australia Technical Education Division

SENIOR LECTURER/LECTURERS IN PHOTOGRAPHY

Applications are invited from persons interested in teaching at Mount Lawley Technical College, situated in a northern suburb of the capital Perth, to the Certificate and Diploma level.

Requirements: Relevant academic studies to Certificate or degree level with extensive experience in the photographic industry. Teaching experience and qualifications are desirable but not essential. Membership of an appropriate professional organisation is an advantage.

Appointment: From 1st February, 1977, at a level dependent upon qualifications and experience.

Salary: Senior Lecturer — \$A17,704
Lecturer — \$A10,323 to \$A15,084

Applications closing on Friday 6th August, 1976, to: Director of Technical Education, 36 Parliament Place, WEST PERTH 6005, Western Australia.

KING FAISAL UNIVERSITY DAMMAM, SAUDI ARABIA

King Faisal University invites applications from qualified and experienced persons to work in the Language Department for the session commencing 1978.

Each individual application will be considered on its own merit. Qualifications must be majoring in English Language Teaching.

DOCTORATE (D.E., Ph. D., Specialists) MASTERS DEGREE (with at least 2 years' experience)

BACHELOR DEGREE (with post-graduate work and 3 years' experience)

The University offers competitive salaries, one year renewable contracts, free furnished air-conditioned accommodation.

Applications with detailed curriculum vitae should be sent to: The Vice-Rector, King Faisal University, PO Box 1982 Dammam, so as to arrive not later than July 20, 1976.

Colleges and Institutes of Technology

RIVERINA COLLEGE OF ADVANCED EDUCATION WAGGA WAGGA, NEW SOUTH WALES

SCHOOL OF TEACHER EDUCATION

(DEAN: DR. P. D. ROUSCH)

LECTURER/ASSISTANT LECTURER POSITIONS

The school offers courses at pre-service and in-service levels leading to the award of diploma and degree. Current planning envisages a strong involvement with curriculum development at the in-service level and a corporate approach to the teaching approach to the school which is based on a developmental approach to the education of children.

Applicants should possess a recent photograph and the names and addresses of three referees from whom confidential enquiries may be made.

Enquiries may be addressed to the Chairman of the Council, The Honourable Mr. Justice M. V. McInerney, and applications marked "Confidential" should be in his hands by 31st August 1976 at 100/101, 102/103, 104/105, 106/107, 108/109, 110/111, 112/113, 114/115, 116/117, 118/119, 120/121, 122/123, 124/125, 126/127, 128/129, 130/131, 132/133, 134/135, 136/137, 138/139, 140/141, 142/143, 144/145, 146/147, 148/149, 150/151, 152/153, 154/155, 156/157, 158/159, 160/161, 162/163, 164/165, 166/167, 168/169, 170/171, 172/173, 174/175, 176/177, 178/179, 180/181, 182/183, 184/185, 186/187, 188/189, 190/191, 192/193, 194/195, 196/197, 198/199, 200/201, 202/203, 204/205, 206/207, 208/209, 210/211, 212/213, 214/215, 216/217, 218/219, 220/221, 222/223, 224/225, 226/227, 228/229, 230/231, 232/233, 234/235, 236/237, 238/239, 240/241, 242/243, 244/245, 246/247, 248/249, 250/251, 252/253, 254/255, 256/257, 258/259, 260/261, 262/263, 264/265, 266/267, 268/269, 270/271, 272/273, 274/275, 276/277, 278/279, 280/281, 282/283, 284/285, 286/287, 288/289, 290/291, 292/293, 294/295, 296/297, 298/299, 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744/745, 746/747, 748/749, 750/751, 752/753, 754/755, 756/757, 758/759, 760/761, 762/763, 764/765, 766/767, 768/769, 770/771, 772/773, 774/775, 776/777, 778/779, 780/781, 782/783, 784/785, 786/787, 788/789, 790/791, 792/793, 794/795, 796/797, 798/799, 800/801, 802/803, 804/805, 806/807, 808/809, 810/811, 812/813, 814/815, 816/817, 818/819, 820/821, 822/823, 824/825, 826/827, 828/829, 830/831, 832/833, 834/835, 836/837, 838/839, 840/841, 842/843, 844/845, 846/847, 848/849, 850/851, 852/853, 854/855, 856/857, 858/859, 860/861, 862/863, 864/865, 866/867, 868/869, 870/871, 872/873, 874/875, 876/877, 878/879, 880/881, 882/883, 884/885, 886/887, 888/889, 890/891, 892/893, 894/895, 896/897, 898/899, 900/901, 902/903, 904/905, 906/907, 908/909, 910/911, 912/913, 914/915, 916/917, 918/919, 920/921, 922/923, 924/925, 926/927, 928/929, 930/931, 932/933, 934/935, 936/937, 938/939, 940/941, 942/943, 944/945, 946/947, 948/949, 950/951, 952/953, 954/955, 956/957, 958/959, 960/961, 962/963, 964/965, 966/967, 968/969, 970/971, 972/973, 974/975, 976/977, 978/979, 980/981, 982/983, 984/985, 986/987, 988/989, 990/991, 992/993, 994/995, 996/997, 998/999, 1000/1001, 1002/1003, 1004/1005, 1006/1007, 1008/1009, 1010/1011, 1012/1013, 1014/1015, 1016/1017, 1018/1019, 1020/1021, 1022/1023, 1024/1025, 1026/1027, 1028/1029, 1030/1031, 1032/1033, 1034/1035, 1036/1037, 1038/1039, 1040/1041, 1042/1043, 1044/1045, 1046/1047, 1048/1049, 1050/1051, 1052/1053, 1054/1055, 1056/1057, 1058/1059, 1060/1061, 1062/1063, 1064/1065, 1066/1067, 1068/1069, 1070/1071, 1072/1073, 1074/1075, 1076/1077, 1078/1079, 1080/1081, 1082/1083, 1084/1085, 1086/1087, 1088/1089, 1090/1091, 1092/1093, 1094/1095, 1096/1097, 1098/1099, 1100/1101, 1102/1103, 1104/1105, 1106/1107, 1108/1109, 1110/1111, 1112/1113, 1114/1115, 1116/1117, 1118/1119, 1120/1121, 1122/1123, 1124/1125, 1126/1127, 1128/1129, 1130/1131, 1132/1133, 1134/1135, 1136/1137, 1138/1139, 1140/1141, 1142/1143, 1144/1145, 1146/1147, 1148/1149, 1150/1151, 1152/1153, 1154/1155, 1156/1157, 1158/1159, 1160/1161, 1162/1163, 1164/1165, 1166/1167, 1168/1169, 1170/1171, 1172/1173, 1174/1175, 1176/1177, 1178/1179, 1180/1181, 1182/1183, 1184/1185, 1186/1187, 1188/1189, 1190/1191, 1192/1193, 1194/1195, 1196/1197, 1198/1199, 1200/1201, 1202/1203, 1204/1205, 1206/1207, 1208/1209, 1210/1211, 1212/1213, 1214/1215, 1216/1217, 1218/1219, 1220/1221, 1222/1223, 1224/1225, 1226/1227, 1228/1229, 1230/1231, 1232/1233, 1234/1235, 1236/1237, 1238/1239, 1240/1241, 1242/1243, 1244/1245, 1246/1247, 1248/1249, 1250/1251, 1252/1253, 1254/1255, 1256/1257, 1258/1259, 1260/1261, 1262/1263, 1264/1265, 1266/1267, 1268/1269, 1270/1271, 1272/1273, 1274/1275, 1276/1277, 1278/1279, 1280/1281, 1282/1283, 1284/1285, 1286/1287, 1288/1289, 1290/1291, 1292/1293, 1294/1295, 1296/1297, 1298/1299, 1300/1301, 1302/1303, 1304/1305, 1306/1307, 1308/1309, 1310/1311, 1312/1313, 1314/1315, 1316/1317, 1318/1319, 1320/1321, 1322/1323, 1324/1325, 1326/1327, 1328/1329, 1330/1331, 1332/1333, 1334/1335, 1336/1337, 1338/1339, 1340/1341, 1342/1343, 1344/1345, 1346/1347, 1348/1349, 1350/1351, 1352/1353, 1354/1355, 1356/1357, 1358/1359, 1360/1361, 1362/1363, 1364/1365, 1366/1367, 1368/1369, 1370/1371, 1372/1373, 1374/1375, 1376/1377, 1378/1379, 1380/1381, 1382/1383, 1384/1385, 1386/1387, 1388/1389, 1390/1391, 1392/1393, 1394/1395, 1396/1397, 1398/1399, 1400/1401, 1402/1403, 1404/1405, 1406/1407, 1408/1409, 1410/1411, 1412/1413, 1414/1415, 1416/1417, 1418/1419, 1420/1421, 1422/1423, 1424/1425, 1426/1427, 1428/1429, 1430/1431, 1432/1433, 1434/1435, 1436/1437, 1438/1439, 1440/1441, 1442/1443, 1444/1445, 1446/1447, 1448/1449, 1450/1451, 1452/1453, 1454/1455, 1456/1457, 1458/1459, 1460/1461, 1462/1463, 1464/1465, 1466/1467, 1468/1469, 1470/1471, 1472/1473, 1474/1475, 1476/1477, 1478/1479, 1480/1481, 1482/1483, 1484/1485, 1486/1487, 1488/1489, 1490/1491, 1492/1493, 1494/1495, 1496/1497, 1498/1499, 1500/1501, 1502/1503, 1504/1505, 1506/1507, 1508/1509, 1510/1511, 1512/1513, 1514/1515, 1516/1517, 1518/1519, 1520/1521, 1522/1523, 1524/1